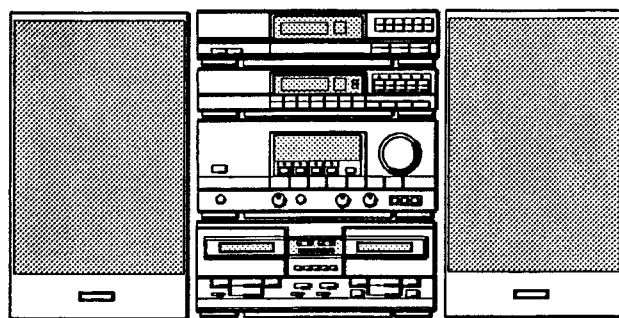


AIWA®**CU-DZ95M**

SERVICE MANUAL



STEREO SYSTEM

• BASIC TAPE MECHANISM : TN-1800U

• TYPE. H,E,K,Z

CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	REMOTE CONTROLLER	SPEAKER	CD PLAYER (OPTIONAL)	TURNTABLE (OPTIONAL)
CU-DZ95M (H type)	MX-Z95M	FX-WZ959	TX-Z95	RC-TZ95MF	SX-Z959 ※1	※2 DX-Z95 ※3 DX-M90M	※4 PX-E80
(E,Z type)	MX-Z95M	FX-WZ959	TX-Z95	RC-TZ95ML	SX-Z95 ※1	※2 DX-Z95 ※3 DX-M90M	※4 PX-E80
(K type)	MX-Z95M	FX-WZ95	TX-Z95	RC-TZ95ML	SX-Z95 ※1	※2 DX-Z95 ※3 DX-M90M	※4 PX-E80

※1 CENTER SYSTEM dose not have ※1.

※2 As to the service information of DX-Z95,
see the individual service manual of DX-Z95.

※3 As to the service information of DX-M90M,
see the individual service manual of DX-M90M.

※4 As to the service information of PX-E80,
see the individual service manual of PX-E80.

TABLE OF CONTENTS

• SPECIFICATIONS -----	3
MX - Z95M	
• ELECTRICAL MAIN PARTS LIST-----	4~6
• TRANSISTOR ILLUSTRATION (MX - Z95M,FX - WZ959/WZ95,TX - Z95)-----	6
• IC BLOCK DIAGRAM, TRUTH TABLE-----	7~8
• IC DESCRIPTION-----	9~10
• ADJUSTMENT-----	10
• BLOCK DIAGRAM -----	11~12
• WIRING - 1 -----	13~14
• SCHEMATIC DIAGRAM - 1 -----	15~16
• WIRING - 2 -----	17~18
• SCHEMATIC DIAGRAM - 2 -----	19~20
• EXPLODED VIEW, MECHANICAL PARTS LIST-----	21~22
FX - WZ959/WZ95	
• CAUTIONS WHEN SERVICING-----	23
• ELECTRICAL MAIN PARTS LIST-----	24~25
• BLOCK DIAGRAM -----	26
• SCHEMATIC DIAGRAM -----	27~28
• WIRING - 1 -----	29~30
• ADJUSTMENT-----	31~32
• PRACTICAL SERVICE FIGURE-----	32
• WIRING - 2-----	33~34
• IC DESCRIPTION-----	35~36
• IC BLOCK DIAGRAM-----	36
• EXPLODED VIEW - 1, MECHANICAL PARTS LIST-----	37~38
• EXPLODED VIEW - 2, MECHANICAL PARTS LIST -----	39~40
TX - Z95	
• CAUTIONS WHEN SERVICING-----	41
• ELECTRICAL MAIN PARTS LIST-----	42~43
• ADJUSTMENT-----	44~45
• PRACTICAL SERVICE FIGURE-----	46
• BLOCK DIAGRAM - 1 (YH)-----	47~48
• BLOCK DIAGRAM - 2 (YE,YK,YZ) -----	49~50
• WIRING - 1 (YH) -----	51~52
• SCHEMATIC DIAGRAM - 1 (YH)-----	53~54
• WIRING - 2 (YE,YK)-----	55~56
• SCHEMATIC DIAGRAM - 2 (YE,YK) -----	57~58
• WIRING - 3 (YZ) -----	59~60
• SCHEMATIC DIAGRAM - 3 (YZ) -----	61~62
• IC DESCRIPTION-----	63~64
• EXPLODED VIEW, MECHANICAL PARTS LIST-----	65
SX - Z959/Z95	
• SPEAKER LIST-----	66
• ACCESSORIES/PACKAGE LIST -----	66

SPECIFICATIONS

TX - Z95

< FM section >

Frequency range	87.5MHz to 108MHz
Usable sensitivity (IHF)	1.6 μ V (75 ohms) 15.2dBf
Alternate channel selectivity	50dB (\pm 400kHz)
Signal-to-noise ratio	70dB (STEREO) 78dB (MONO)
Image response ratio	45dB
Frequency response	20Hz to 15kHz (+ 0.5dB, - 3dB)
Stereo separation	40dB at 1kHz
Antenna	75 ohms (unbalanced)

< AM (MW) section >

Frequency range	YH 530kHz to 1,602kHz YE,YK,YZ 522kHz to 1,611kHz
Usable sensitivity	300 μ V/m
Selectivity	23dB (9kHz)
Signal-to-noise ratio	53dB (100dB input)
Antenna	Loop antenna

< LW section > (E,K,Z only)

Frequency range	144kHz to 290kHz
Usable sensitivity	1,000 μ V/m
Antenna	Loop antenna

< Timer section and general >

Program timer	"Once" and/or "every"
Sleep timer	Capable of setting in 10-minute decrements, 99 minutes maximum
Dimensions	360 (W) \times 78 (H) \times 308 (D) mm
Weight	2.3kg

AMPLIFIER MX-Z95M (with the graphic equalizer)

Power output	H : 150W + 150W (6 ohms, T.H.D. 10% RMS) E,K : 100W + 100W (6 ohms, T.H.D. 10% RMS) Z : 80W + 80W (6 ohms, T.H.D. 10% RMS)
--------------	--

Input sensitivity (load impedance)

	PHONO, VIDEO 1/DAT, VIDEO 2, VEDEO 3 IN (AUDIO) :
	H : 260mV (47kohms) E,K,Z : 210mV (47kohms)
Signal-to-noise ratio	90dB (CD/DAT DIRECT)
Power requirements	H : 120V / 220V / 240V AC, switchable, 50/60Hz E,Z : 220V AC, 50Hz K : 240V AC, 50Hz
Power consumption	H : 220W (system total 240W) E,K,Z : 380W (system total 410W)
Dimensions	360 (W) \times 216 (H) \times 324 (D) mm
Weight	H : 9.3kg E,K,Z : 8.5kg

CASSETTE DECK FX-WZ959/FX-WZ95

Track format	4 tracks, 2 channels
Frequency response	Metal tape : 20 - 17,000Hz (only for playback) CrO ₂ tape : 20 - 16,000Hz Normal tape : 20 - 15,000Hz
Signal-to-noise ratio	70dB (DOLBY NR C-ON, CrO ₂ tape, peak level)

Wow and flutter	0.09% (WRMS)
Tape speed	4.8cm/sec. (1-7/8 ips) 8.6cm/sec. (high speed)
Rewind time	120 sec. (C-60)
Fast forward time	120 sec. (C-60)
Recording system	AC bias
Erase system	AC erase
Motor	DC servomotor \times 2
Heads	Playback head \times 1 (deck 1) Record/playback/erase head \times 1 (deck 2)
Dimensions	360 (W) \times 138 (H) \times 309 (D) mm
Weight	3.9kg

SPEAKER SX-Z959 (H model)

Cabinet type	Bass reflex
Speaker	220mm cone type woofer 60mm cone type tweeter 30mm ceramic type super tweeter
Impedance	6 ohms
Output sound pressure level	89dB/W/m
Frequency response	42Hz to 20kHz
Dimensions	296 (W) \times 550 (H) \times 230 (D) mm
Weight	7.0kg


SPEAKER SX-Z95 (E,K,Z models)

Cabinet type	Bass reflex
Speaker	220mm cone type woofer 60mm cone type tweeter 30mm ceramic type super tweeter
Impedance	6 ohms
Output sound pressure level	89dB/W/m
Frequency response	42Hz to 20kHz
Dimensions	290 (W) \times 550 (H) \times 230 (D) mm
Weight	7.0kg

COMMON SECTION

Power requirements	H : 120V / 220V / 240V AC, switchable, 50/60Hz E,Z : 220V AC, 50/60Hz K : 240V AC, 50/60Hz
Dimensions	H : 952 (W) \times 550 (H) \times 324 (D) mm (vertical placement) 1,312 (W) \times 550 (H) \times 324 (D) mm (horizontal placement) E,K,Z : 940 (W) \times 550 (H) \times 324 (D) mm (vertical placement) 1,300 (W) \times 550 (H) \times 324 (D) mm (horizontal placement)
Weight	H : 29.5kg E,K,Z : 28.7kg

• Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under licence from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
- Under license from BBE Sound, Inc.

MODEL NO.

MX — Z95M

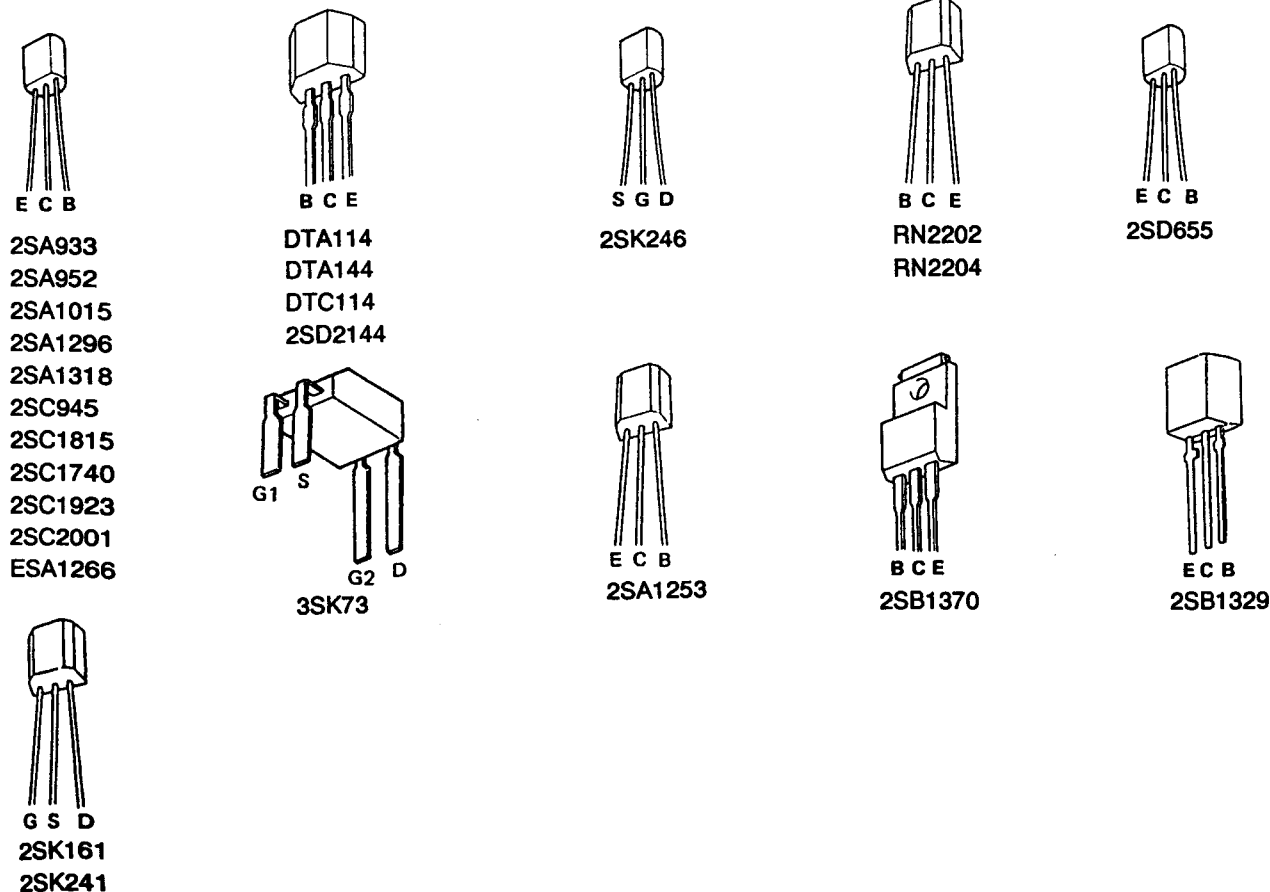
ELECTRICAL MAIN PARTS LIST (MX — Z95M)

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
--- IC ---					
	87-001-443-010	IC, ASP-8801	C556	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y
	87-001-440-010	IC, BA15218N	C557	★87-010-374-010	CAP, ELECT 47-10
	87-001-868-010	IC, BU4015B	C558	★87-010-263-010	CAP, ELECT 100-10
	87-001-347-010	IC, HD14051BP	C601	★87-018-115-010	CAP, CERA-SOL 47P-50 SL
	87-001-350-010	IC, HD14052BP	C602	★87-018-115-010	CAP, CERA-SOL 47P-50 SL
	87-001-530-010	IC, LA3607	C603	★87-010-404-010	CAP, ELECT 4.7-50 SME
	89-VP5-630-010	IC, LC6568H-4267	C604	★87-010-404-010	CAP, ELECT 4.7-50 SME
	87-001-528-010	IC, LC7522	C605	★87-010-404-010	CAP, ELECT 4.7-50 SME
	87-020-758-010	IC, NJM2068SD	C606	★87-010-404-010	CAP, ELECT 4.7-50 SME
	87-001-396-010	IC, STK4182-2 (E, K, Z)	C607	★87-010-374-010	CAP, ELECT 47-10
	87-001-902-010	IC, STK4221-2 (H)	C647	★87-018-125-010	CAP, CERA-SOL 330P-50 B
	87-020-943-010	IC, TC9176P	C651	★87-018-131-010	CAP, CERA-SOL 1000P-50 B
	87-001-869-010	IC, XR-1091	C652	★87-018-127-010	CAP, CERA-SOL 470P-50 B
			C653	★87-010-404-010	CAP, ELECT 4.7-50 SME
			C654	★87-010-546-010	CAP, ELECT 0.33-50 SME
			C755	★87-018-103-010	CAP, CERA-SOL 8.2P-50 SL
--- TRANSISTOR ---					
	87-026-462-010	TRANSISTOR, 2SC1740S (RS)	C756	★87-018-103-010	CAP, CERA-SOL 8.2P-50 SL
	87-026-500-010	TRANSISTOR, 2SD2144S, UV	C757	★87-010-404-010	CAP, ELECT 4.7-50 SME
	89-110-155-010	TRANSISTOR, 2SA1015GR	C758	★87-010-404-010	CAP, ELECT 4.7-50 SME
	89-112-632-010	TRANSISTOR, 2SA1253N, OR (E, K, Z)	C807	★87-010-421-010	CAP, ELECT 4.7-50 SL
	89-213-292-010	TRANSISTOR, 2SB1329Q	C808	★87-010-421-010	CAP, ELECT 4.7-50 SL
	89-213-702-010	TRANSISTOR, 2SB1370E (H)	C809	★87-010-404-010	CAP, ELECT 4.7-50 SME
	89-309-456-010	TRANSISTOR, 2SC945LP	C810	★87-010-404-010	CAP, ELECT 4.7-50 SME
	89-318-155-010	TRANSISTOR, 2SC1815GR	C815	★87-010-405-010	CAP, ELECT 10-50 SME
	89-406-555-010	TRANSISTOR, 2SD655E	C816	★87-010-405-010	CAP, ELECT 10-50 SME
	87-026-219-010	TRANSISTOR, DTA144ES	C819	★87-010-404-010	CAP, ELECT 4.7-50 SME
	89-026-375-010	TRANSISTOR, RN2202	C820	★87-010-404-010	CAP, ELECT 4.7-50 SME
	87-026-377-010	TRANSISTOR, RN2204	C821	★87-010-401-010	CAP, ELECT 1-50 SME
--- DIODE ---					
	82-596-799-010	DIODE, 1N4002	C822	★87-010-404-010	CAP, ELECT 4.7-50 SME
	87-001-559-010	DIODE, 1SS131	C823	★87-010-401-010	CAP, ELECT 1-50 SME
	87-020-465-010	DIODE, 1SS133	C825	★87-010-236-010	CAP, ELECT 1000-10
	87-001-820-010	DIODE, GP15B (E, K, Z)	C826	★87-010-236-010	CAP, ELECT 1000-10
	87-001-729-010	DIODE, S5VB20	C827	★87-018-131-010	CAP, CERA-SOL 1000P-50 B
	87-027-346-010	DIODE, ZENER HZ11A2L	C828	★87-018-131-010	CAP, CERA-SOL 1000P-50 B
	87-027-680-010	DIODE, ZENER HZ11C1L	C829	★87-010-381-010	CAP, ELECT 330-16 SME
	87-027-661-010	DIODE, ZENER HZ30-2L	C851	★87-010-404-010	CAP, ELECT 4.7-50 SME
	87-027-301-010	DIODE, ZENER HZ3A1	C852	★87-010-404-010	CAP, ELECT 4.7-50 SME
	87-027-332-010	DIODE, ZENER HZ6B1L	C853	★87-018-124-010	CAP, CERA-SOL 270P-50 B
	87-027-584-010	DIODE, ZENER HZ9C1L	C854	★87-018-124-010	CAP, CERA-SOL 270P-50 B
	87-027-702-010	DIODE, ZENER, HZ6C2L	C855	★87-010-382-010	CAP, ELECT 22-25 SME
--- MAIN CIRCUIT BOARD SECTION ---					
C500	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y	C860	★87-010-260-010	CAP, ELECT 47-25 SME
C501	★87-010-693-010	CAP, ELECT 8200-63 (H)	C861	★87-010-544-010	CAP, ELECT 0.1-50
C501	★87-010-756-010	CAP, ELECT 6800-50 (E, K, Z)	C862	★87-010-544-010	CAP, ELECT 0.1-50
C502	★87-010-693-010	CAP, ELECT 8200-63 (H)	C863	★87-010-544-010	CAP, ELECT 0.1-50
C502	★87-010-756-010	CAP, ELECT 6800-50 (E, K, Z)	C864	★87-010-544-010	CAP, ELECT 0.1-50
C503	★87-010-374-010	CAP, ELECT 47-10	C865	★87-010-247-010	CAP, ELECT 100-50 SME (E, K, Z)
C504	★87-010-263-010	CAP, ELECT 100-10	C865	★87-010-430-010	CAP, ELECT 100-63 (H)
C505	★87-010-403-010	CAP, ELECT 3.3-50 SME	C867	★87-018-123-010	CAP, CERA-SOL 220P-50B
C509	★87-010-430-010	CAP, ELECT 100-63 (H)	C868	★87-018-123-010	CAP, CERA-SOL 220P-50B
C509	★87-010-247-010	CAP, ELECT 100-50 SME (E, K, Z)	C901	★87-010-221-010	CAP, ELECT 470-10
C510	★87-010-374-010	CAP, ELECT 47-10	C902	★87-010-221-010	CAP, ELECT 470-10
C511	★87-010-374-010	CAP, ELECT 47-10	C903	★87-010-221-010	CAP, ELECT 470-10
C521	★87-010-384-010	CAP, ELECT 100-25 SME	C904	★87-010-236-010	CAP, ELECT 1000-10
C522	★87-010-384-010	CAP, ELECT 100-25 SME	C919	★87-010-263-010	CAP, ELECT 100-10
C523	★87-010-385-010	CAP, ELECT 220-25	C951	★87-018-131-010	CAP, CERA-SOL 1000P-50 B
C531	★87-010-384-010	CAP, ELECT 100-25 SME	C952	★87-018-209-010	CAP, CERA-SOL 0.1-50 F
C551	★87-010-390-010	CAP, ELECT 3300-25 SME	△FR501	87-029-096-010	PES, FUSE 100 1/2W (H)
C553	★87-010-382-010	CAP, ELECT 22-25 SME	△FR501	87-029-030-010	RES, FUSE 82 1/4W (E, K, Z)
C554	★87-010-381-010	CAP, ELECT 330-16 SME	J951	87-009-204-010	JACK, 6.3 YKB21-5012 (MIC)
C555	★87-012-341-010	CAP, ELECT 10-16 SXJ	J952	81-669-655-010	JACK, 6.3 W/S AU (PHONES)

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
J953-1	★89-VP5-639-010	JACK, PIN 6P AV(VIDEO-1 IN)	C318	★87-018-201-010	CAP, CERA-SOL 5600P
J953-2	+++	JACK, PIN 6P AV(VIDEO-1 OUT)	C321	★87-018-132-010	CAP, CERA-SOL 2200P-16 X
J953-3	+++	JACK, PIN 6P AV(VIDEO-2 IN)	C322	★87-018-132-010	CAP, CERA-SOL 2200P-16 X
J953-4	+++	JACK, PIN 6P AV(MONITOR OUT)	C325	★87-018-129-010	CAP, CERA-SOL 680P
J953-5	+++	JACK, PIN 6P AV(VIDEO-1/DAT-L)	C326	★87-018-129-010	CAP, CERA-SOL 680P
J953-6	+++	JACK, PIN 6P AV(VIDEO-1/DAT-R)	C329	★87-018-125-010	CAP, CERA-SOL 330P-50 B
J954-1	★89-VP5-638-010	JACK PIN 6P EARTH(PHONO-L)	C330	★87-018-125-010	CAP, CERA-SOL 330P-50 B
J954-2	+++	JACK PIN 6P EARTH(PHONO-R)	C331	★87-018-133-010	CAP, CERA-SOL 4700P-16 X
J954-3	+++	JACK PIN 6P EARTH(VIDEO-1/DAT-L)	C332	★87-018-133-010	CAP, CERA-SOL 4700P-16 X
J954-4	+++	JACK PIN 6P EARTH(VIDEO-1/DAT-R)	C333	★87-010-075-010	CAP, ELECT 10-16 5L
J954-5	+++	JACK PIN 6P EARTH(VIDEO-2-L)	C334	★87-010-248-010	CAP, ELECT 220-10 SME
J954-6	+++	JACK PIN 6P EARTH(VIDEO-2-R)	C335	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y
J955	★87-009-065-010	CONNECTOR, 15P FG(1. TUNER)	C338	★87-010-405-010	CAP, ELECT 10-50
J956	★87-009-063-010	CONNECTOR, 11P FG(2. CD)	C401	★87-010-401-010	CAP, ELECT 1-50 SME
J957	★87-049-851-010	JACK, PIN 2P(SURROUND SPEAKERS)	C402	★87-010-401-010	CAP, ELECT 1-50 SME
J958	★87-033-197-010	TERMINAL, SP-4P 2(SPEAKERS)	C403	★87-010-401-010	CAP, ELECT 1-50 SME
L951	★87-005-366-010	COIL, 1UH	C404	★87-010-401-010	CAP, ELECT 1-50 SME
L952	★87-005-366-010	COIL, 1UH	C405	★87-018-130-010	CAP, CERA-SOL 820P
L953	★87-003-098-010	COIL, 2.2UH	C406	★87-018-130-010	CAP, CERA-SOL 820P
R525	★87-022-050-010	RES, MF 1W-0.22J	C411	★87-018-123-010	CAP, CERA-SOL 220P-50 B
R526	★87-022-050-010	RES, MF 1W-0.22J	C412	★87-018-123-010	CAP, CERA-SOL 220P-50 B
R529	★87-022-050-010	RES, MF 1W-0.22J	C415	★87-010-545-010	CAP, ELECT 0.22-50 SME
R530	★87-022-050-010	RES, MF 1W-0.22J	C416	★87-010-545-010	CAP, ELECT 0.22-50 SME
RY551	87-045-285-010	RELAY, VB12MB	C417	★87-010-401-010	CAP, ELECT 1-50 SME
RY951	87-045-307-010	RELAY, LZ-12WM-K	C418	★87-010-401-010	CAP, ELECT 1-50 SME
=== FRONT CIRCUIT BOARD SECTION ===			C419	★87-018-109-010	CAP, CERA-SOL 22P-50 SL
C101	★87-010-405-010	CAP, ELECT 10-50 SME	C420	★87-018-109-010	CAP, CERA-SOL 22P-50 SL
C102	★87-010-405-010	CAP, ELECT 10-50 SME	C421	★87-010-071-010	CAP, ELECT 1-50 5L
C151	★87-010-405-010	CAP, ELECT 10-50 SME	C422	★87-010-401-010	CAP, ELECT 1-50 SME
C152	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y	C423	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y
C153	★87-010-807-010	CAP, ELECT 330-6.3	C424	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y
C154	★87-010-421-010	CAP, ELECT 4.7-50 SME	C425	★87-010-421-010	CAP, ELECT 4.7-50 SME
C156	★87-010-405-010	CAP, ELECT 10-50 SME	C426	★87-010-421-010	CAP, ELECT 4.7-50 SME
C157	★87-010-234-010	CAP, ELECT 47-16 5L	C433	★87-010-071-010	CAP, ELECT 1-50 5L
C158	★87-018-127-010	CAP, CERA-SOL 470P-50 B	C434	★87-010-071-010	CAP, ELECT 1-50 5L
C159	★87-018-209-010	CAP, CERA-SOL 0.1-50F	C435	★87-010-071-010	CAP, ELECT 1-50 5L
C160	★87-018-209-010	CAP, CERA-SOL 0.1-50F	C436	★87-010-401-010	CAP, ELECT 1-50 SME
C161	★87-018-134-010	CAP, CERA-SOL 0.01-16Y	C441	★87-010-234-010	CAP, ELECT 47-16 5L
C162	★87-018-131-010	CAP, CERA-SOL 1000P	C443	★87-010-263-010	CAP, ELECT 100-10
C201	★87-018-131-010	CAP, CERA-SOL 1000P	C457	★87-010-401-010	CAP, ELECT 1-50 SME
C202	★87-018-131-010	CAP, CERA-SOL 1000P	CF151	★87-030-167-010	VIB, CER CST4.0MHZ
C251	★87-010-404-010	CAP, ELECT 4.7-50 5L	FL101	89-VP5-625-010	FL, 9BT66GK (AMP)
C252	★87-010-404-010	CAP, ELECT 4.7-50 5L	FL102	89-VP5-626-010	FL, BG-762GK (GEO)
C253	★87-010-404-010	CAP, ELECT 4.7-50 5L	J201-1	★89-VP5-637-010	JACK, PIN 3P AU(VIDEO-3 L)
C254	★87-010-234-010	CAP, ELECT 47-16 5L	J201-2	+++	JACK, PIN 3P AU(VIDEO-3 R)
C255	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y	J201-3	+++	JACK, PIN 3P AU(VIDEO-3 V)
C256	★87-018-195-010	CAP, CERA-SOL 1200P	L151	★87-005-372-010	COIL, S 1MMH
C257	★87-010-401-010	CAP, ELECT 1-50 SME	LED1	87-001-123-010	LED, SLZ-981C-02(1/HEAVY)
C259	★87-018-209-010	CAP, CERA-SOL 0.1-50F	LED2	87-001-123-010	LED, SLZ-981C-02(2/SOFT)
C261	★87-018-121-010	CAP, CERA-SOL 150P-50 B	LED3	87-001-123-010	LED, SLZ-981C-02(3/VOCAL)
C262	★87-018-121-010	CAP, CERA-SOL 150P-50 B	LED4	87-001-123-010	LED, SLZ-981C-02(4/HS)
C301	★87-010-404-010	CAP, ELECT 4.7-50 SME	LED5	87-001-123-010	LED, SLZ-981C-02(5/CLEAR)
C302	★87-010-404-010	CAP, ELECT 4.7-50 SME	LED6	87-001-123-010	LED, SLZ-981C-02(MANUAL)
C303	★87-018-127-010	CAP, CERA-SOL 470P-50 B	LED7	87-001-123-010	LED, SLZ-981C-02(PROGRAM)
C304	★87-018-127-010	CAP, CERA-SOL 470P-50 B	LED8	87-001-123-010	LED, SLZ-981C-02(CD/DAT DIRECT)
C307	★87-010-417-010	CAP, ELECT 2.2-35 5L	LED9	87-001-123-010	LED, SLZ-981C-02(SURROUND)
C308	★87-010-402-010	CAP, ELECT 2.2-50 SME	LED10	87-001-123-010	LED, SLZ-981C-02(BBE)
C311	★87-010-071-010	CAP, ELECT 1-50 5L	LED11	87-001-123-010	LED, SLZ-981C-02(DIRECT REC.)
C312	★87-010-401-010	CAP, ELECT 1-50 SME	RE101	89-VP5-634-010	ENCODER, DIA16WN(VOLUME UP/DOWN)
C315	★87-010-068-010	CAP, ELECT 0.22-50 5L	S1	87-036-142-010	TACT SW(1)
C316	★87-010-545-010	CAP, ELECT 0.22-50 SME	S2	87-036-142-010	TACT SW(2)
C317	★87-018-201-010	CAP, CERA-SOL 5600P	S3	87-036-142-010	TACT SW(3)
			S4	87-036-142-010	TACT SW(4)
			S5	87-036-142-010	TACT SW(5)

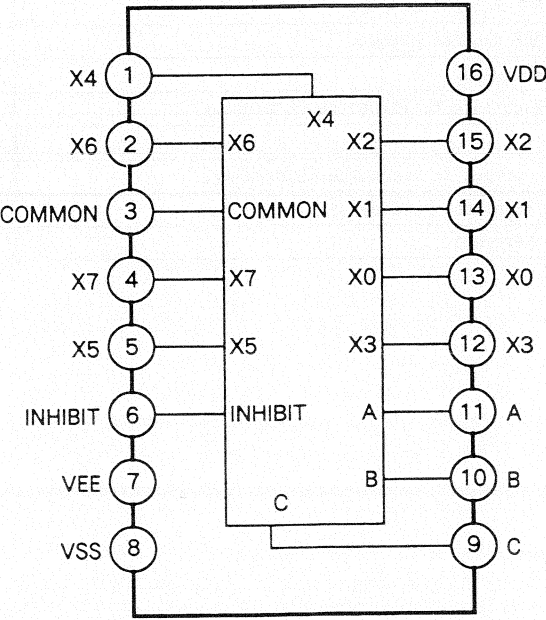
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
S6	87-036-142-010	TACT SW(HEAVY)	SFR401	★87-021-745-010	SFR 47K
S7	87-036-142-010	TACT SW(SOFT)	SFR402	★87-021-745-010	SFR 47K
S8	87-036-142-010	TACT SW(VOCAL)	VR201	89-VP5-635-010	VOLUME 10KA(MIC MIXING)
S9	87-036-142-010	TACT SW(HS)	VR202	89-VP5-636-010	VOLUME 500KA(DSL)
S10	87-036-142-010	TACT SW(CLEAR)	VR401	81-689-623-010	VOLUME 50KB(BBE)
S11	87-036-142-010	TACT SW(60HZ△)	=== POWER CIRCUIT BOARD-1 SECTION ===		
S12	87-036-142-010	TACT SW(150HZ△)	△	87-033-213-010	FUSE CLAMP
S13	87-036-142-010	TACT SW(350HZ△)	△F2	87-035-366-010	FUSE, T2. 5A(H)
S14	87-036-142-010	TACT SW(1KHZ△)	△F2	87-035-139-010	FUSE, T2. 5A(E, K, Z)
S15	87-036-142-010	TACT SW(2.5KHZ△)	△R1	87-022-184-010	RES, MF 0.33-1W
S16	87-036-142-010	TACT SW(6KHZ△)	△R2	87-022-184-010	RES, MF 0.33-1W
S17	87-036-142-010	TACT SW(15KHZ△)	=== POWER CIRCUIT BOARD-2 SECTION (E, K, Z) ===		
S18	87-036-142-010	TACT SW(60HZ▽)	△	87-033-213-010	FUSE CLAMP
S19	87-036-142-010	TACT SW(150HZ▽)	△F1	87-035-366-010	FUSE, T2. 5A
S20	87-036-142-010	TACT SW(350HZ▽)	=== POWER CIRCUIT BOARD-3 SECTION (H) ===		
S21	87-036-142-010	TACT SW(1KHZ▽)	△	87-033-213-010	FUSE CLAMP
S22	87-036-142-010	TACT SW(2.5KHZ▽)	△F3	87-035-191-010	FUSE, T3. 15A
S23	87-036-142-010	TACT SW(6KHZ▽)	△F4	87-035-191-010	FUSE, T3. 15A
S24	87-036-142-010	TACT SW(15KHZ▽)	=== POWER CIRCUIT BOARD-4 SECTION(H) ===		
S25	87-036-142-010	TACT SW(GEO ON/OFF)	△S101	87-036-173-010	SLIDE SW(AC VOLTAGE)
S26	87-036-142-010	TACT SW(DISPLAY)	=== MISCELLANEOUS ===		
S27	87-036-142-010	TACT SW(CALIBRATION)	△	★87-085-184-010	CORD BUSHING(H)
S28	87-036-142-010	TACT SW(MEMORY)	△	87-085-185-010	CORD BUSHING(E, K, Z)
S29	87-036-142-010	TACT SW(TAPE)	△	87-034-749-010	AC CORD ASSY, H(H)
S30	87-036-142-010	TACT SW(TUNER)	△	87-034-781-010	AC CORD ASSY, E(E, Z)
S31	87-036-142-010	TACT SW(PHONO)	△	87-034-592-010	AC CORD ASSY, K(K)
S32	87-036-142-010	TACT SW(CD)	△PT1	89-VP5-606-010	POWER TRANSFORMER, H(H)
S33	87-036-142-010	TACT SW(VIDEO-1/DAT)	△PT1	89-VP5-608-010	POWER TRANSFORMER, EZ(E, Z)
S34	87-036-142-010	TACT SW(VIDEO-2)	△PT1	89-VP5-609-010	POWER TRANSFORMER, KG(K)
S35	87-036-142-010	TACT SW(VIDEO-3)			
S36	87-036-142-010	TACT SW(CD/DAT DIRECT)			
S37	87-036-142-010	TACT SW(SURROUND)			
S38	87-036-142-010	TACT SW(BBE)			
S39	87-036-142-010	TACT SW(DIRECT REC.)			
S40	87-036-142-010	TACT SW(MUTING/WAKE UP)			
S41	87-036-142-010	TACT SW(POWER, STANDBY/ON)			

TRANSISTOR ILLUSTRATION (MX — Z95M, FX — WZ959/WZ95, TX — Z95)



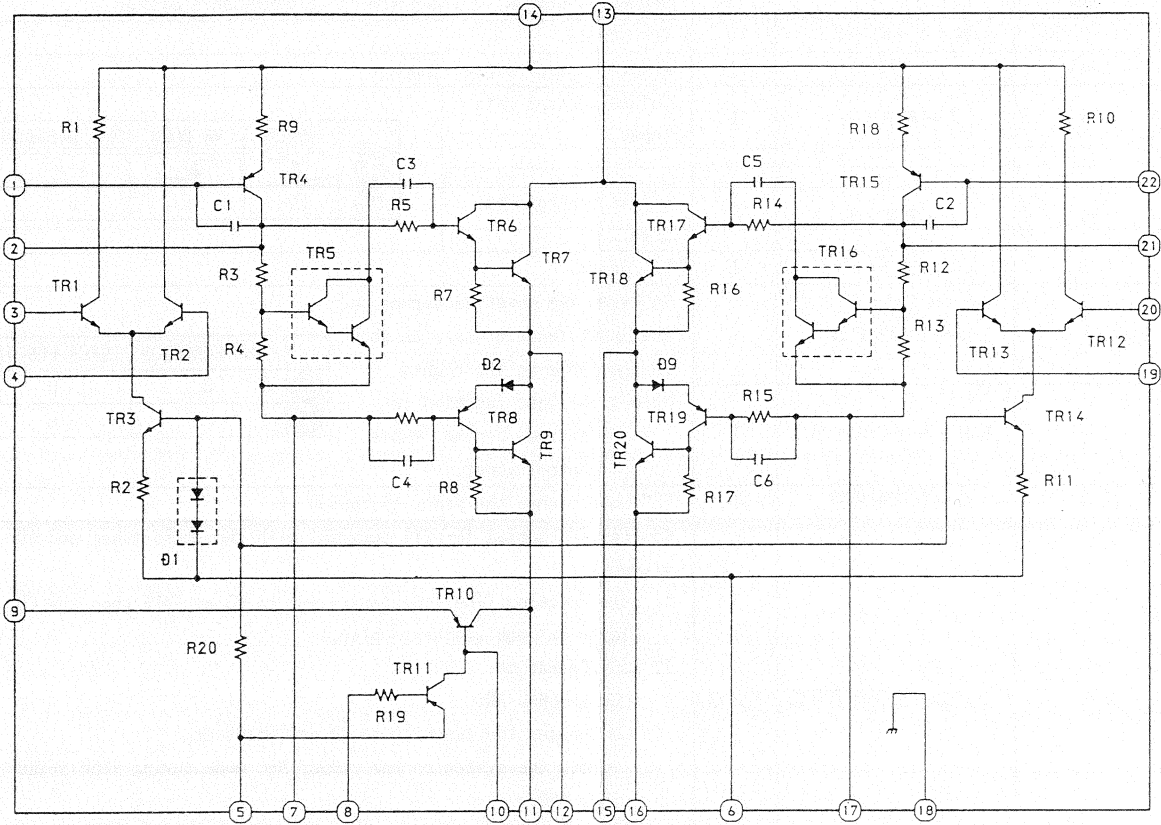
IC BLOCK DIAGRAM, TRUTH TABLE (MX — Z95M)

IC,HD14051BP

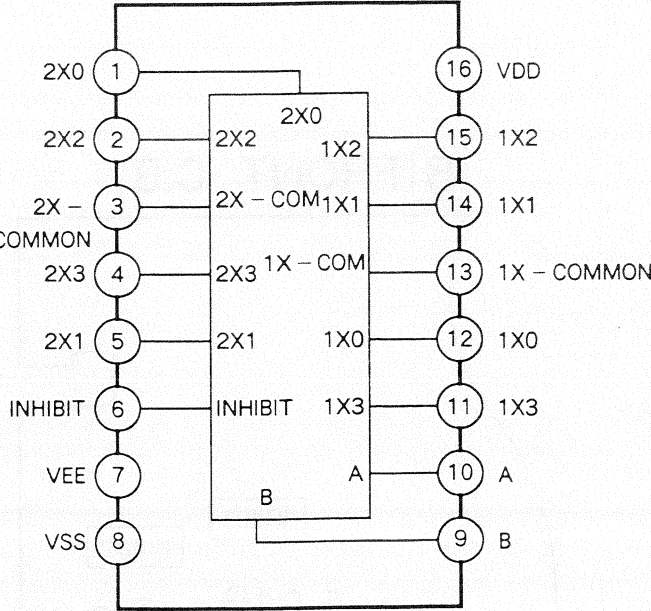


CONTROL INPUT			ON SWITCH	FUNCTION
C	B	A		
0	0	0	X0	TAPE
0	0	1	X1	TUNER
0	1	0	X2	PHONO
0	1	1	X3	CD
1	0	0	X4	VIDEO-1/DAT
1	0	1	X5	VIDEO-2
1	1	0	X6	VIDEO-3
1	1	1	X7	(MUTE)

IC,STK4221 II



IC,HD14052BP



CONTROL INPUT		ON SWITCH	FUNCTION
B	A		
0	0	X0	BBE ON
0	1	X1	BBE OFF
1	0	X2	—
1	1	X3	—

GND 0-BBE

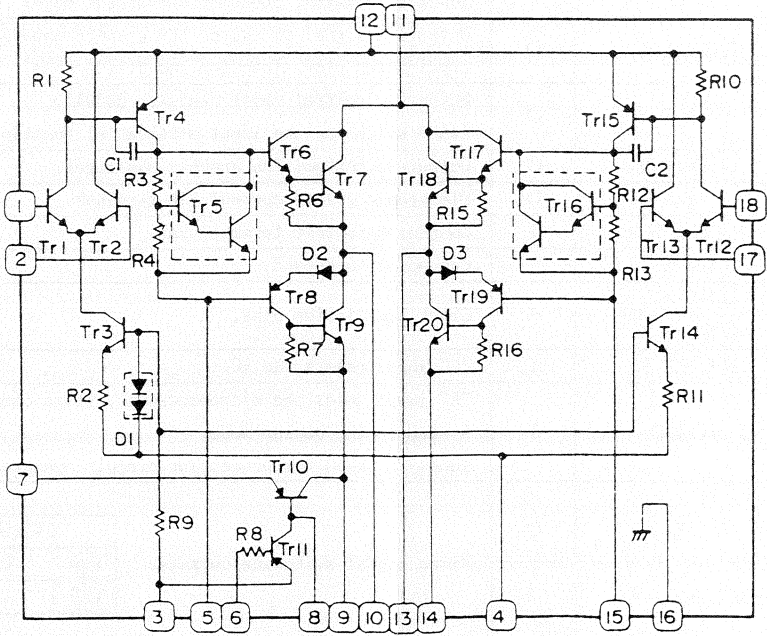
CONTROL INPUT		ON SWITCH	FUNCTION
B	A		
0	0	X0	SURROUND ON
0	1	X1	NORMAL
1	0	X2	DIRECT+SURROUND
1	1	X3	DIRECT ON

DIRECT 0-SURR

CONTROL INPUT		ON SWITCH	FUNCTION
B	A		
0	0	X0	DIRECT-REC (MUTE)
0	1	X1	NORMAL-REC
1	0	X2	NORMAL-REC
1	1	X3	(MUTE)

0- 0-INPUT
EQ-REQ (Usually 0)

IC,STK4182 II



IC DESCRIPTION (MX—Z95M)

IC,LC6568H—4267

Pin No.	Pin Name	I/O	Description	ACTIVE
1~9	a~i	O	Segments outputs to light the FL (fluorescent) display.	H
10~13	KEY-0~3	I	Key inputs.	H
14	I-REC	I	Remote control signal input.	H
15	I-RE·A	I	Volume control data input.	L
16	I-RE·B	I	Volume control data input.	L
17	KEY-4	I	Key input.	H
18	I-POWER	I	"H" when the power is turned on. The input functions are as shown in the table on the right.	H
19	KEY-POWER	I	Note : The last function is restored by the remote control input.	H
20	O-POWER	O	"L" output when the power is turned on.	L
21	I/O-SERIAL	I/O	Control I/O serial (8-bit) terminal with the deck, tuner and CD player. 1. Auto Function (The function is set to CD or TAPE when the CD player or deck starts to play.) 2. Easy Operation • CD SYNCHRO REC • Changes the function to CD and holds it. • Sets the system to the DIRECT REC mode during HIGH SPEED CD REC. • Starts the deck or CD player when the TAPE or CD function key is turned on.	L
22	O-BBE	O	BBE LED lighting and BBE ON/OFF signal switching output.	L
23	O-SURROUND	O	SURROUND LED lighting, SURROUND ON/OFF signal switching and SURROUND speaker ON/OFF control output.	L
24	O-EQ REC	O	DIRECT REC LED lighting and REC OUT signal switching output.	L
25	O-DATA	O	Outputs a signal to switch the graphic equalizer, electronic volume, input attenuator, function and direct mode.	H
26	O-CLK	O	Outputs a signal to switch the graphic equalizer, electronic volume, input attenuator, function and direct mode.	H
27	O-INPUT	O	Output to control shift register BU4015. (when switching the input attenuator, function and direct mode)	H
28	O-GEQ	O	Output to control the graphic equalizer.	H
29	O-EVR	O	Electronic volume control STB terminal.	H
30	TEST	I	Connected to test terminal Vss.	—
31	VSS	—	Connected to ground.	—
32	OSC-1	—	Clock oscillation pins.	—
33	OSC-2	—		—
34	RESET	I	"L" input resets the IC.	—
35	HOLD	I	"H" input holds the microprocessor, stops oscillations and sets the system to the backup mode. (Goes "L" when the protection circuit operates)	H
36	O-VIDEO 2	O	Video signal switching outputs.	H
37	O-VIDEO 3	O		H
38	I-COMP	I	Spectrum analyzer lighting level input.	H

	VR UP	VR DOWN	Not accepted
(15)	↗	↘	—
(16)	L	L	H

	LAST FUNCTION	TUNER FUNCTION
(18)	H	H
(19)	H	L

	VIDEO 1	VIDEO 2	VIDEO 3
(36)	L	H	L
(37)	L	L	H

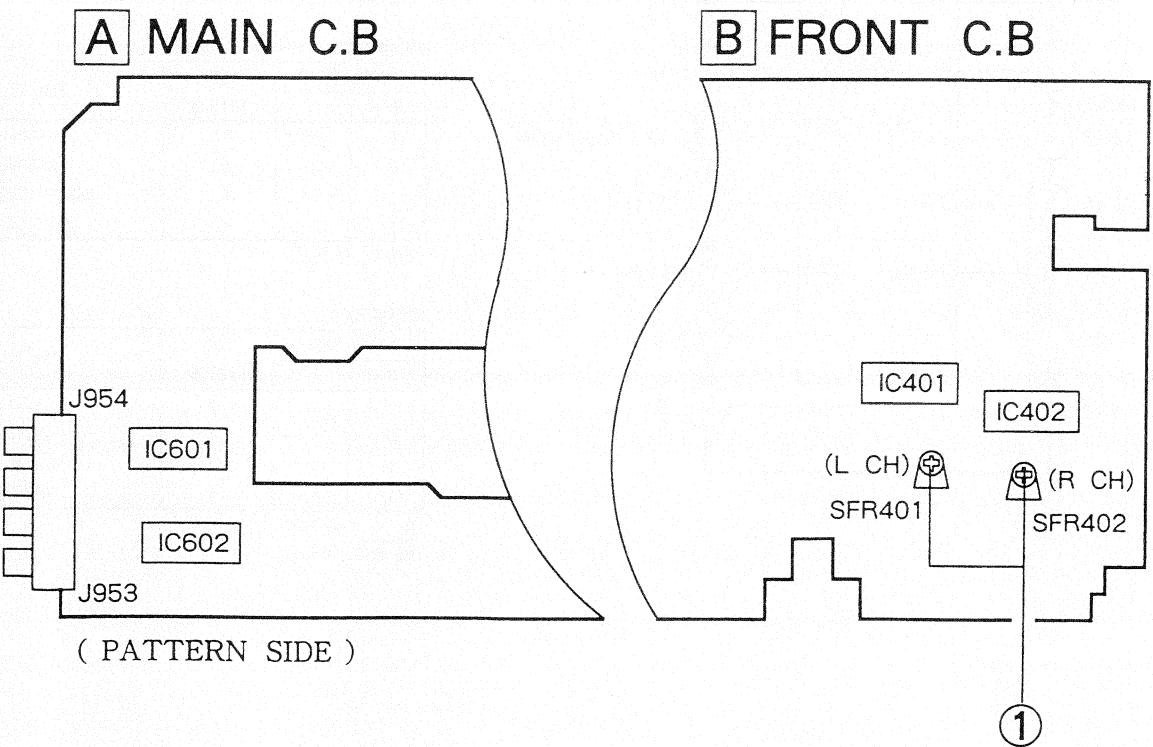
Pin No.	Pin Name	I/O	Description	ACTIVE
39	O-COMP A	O	Spectrum analyzer BPF control output.	H
40	O-COMP B	O	Spectrum analyzer BPF control output.	H
41	O-COMP C	O	Spectrum analyzer BPF control output.	H
42	O-LED	O	Dynamic lighting LED output.	H
43~50	IG~8G	O	Grid and key matrix outputs to light the FL display.	L
51	-Vp	—	Connected to -31V.	—
52	9G	O	Grid and key matrix output to light the FL display.	L
53~63	j~t	O	Segment outputs to light the FL display.	H
64	VDD	—	Positive (+) power terminal.	—

ADJUSTMENT (MX—Z95M)

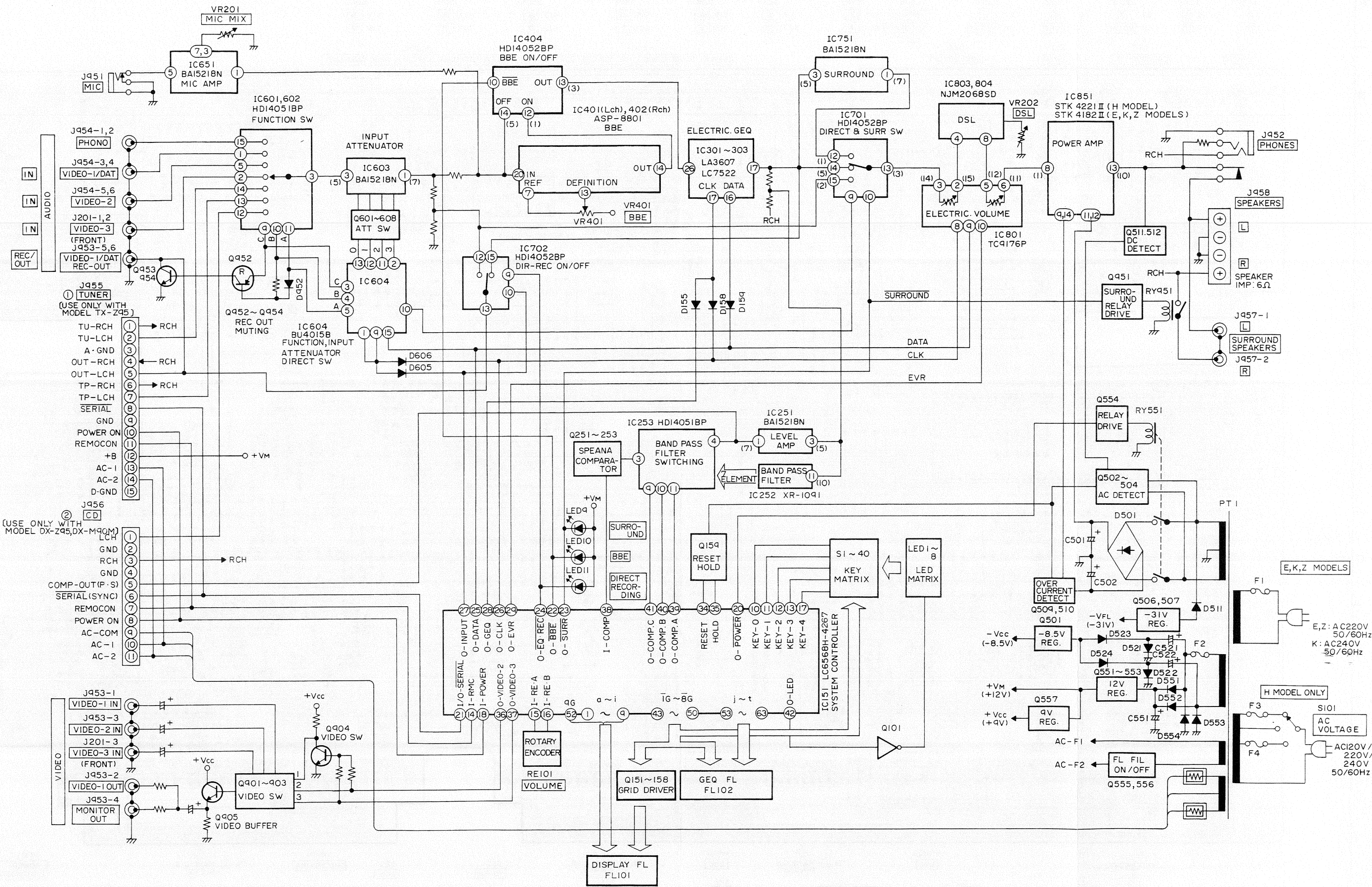
1. BBE Level Adjustment.

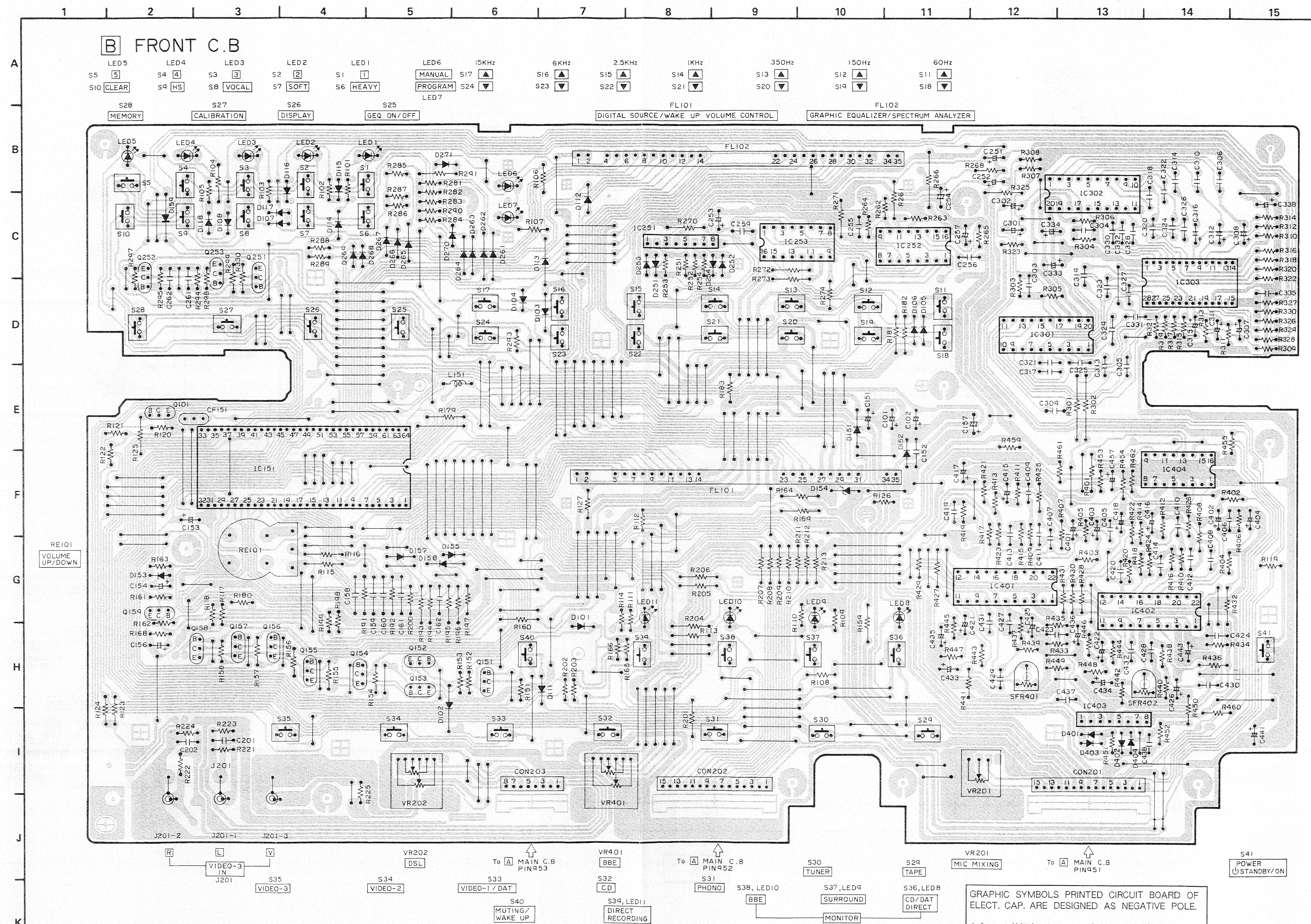
- Settings : • Test point : VIDEO-1 / DAT REC OUT (J953)
• Input terminal : VIDEO-1 / DAT IN (J954)
• Input signal : 0dBm (0.775V), 1kHz/5kHz
• BBE switch : ON
• BBE volume : MIN
• Adjustment locations : SFR401 (Lch)
SFR402 (Rch)

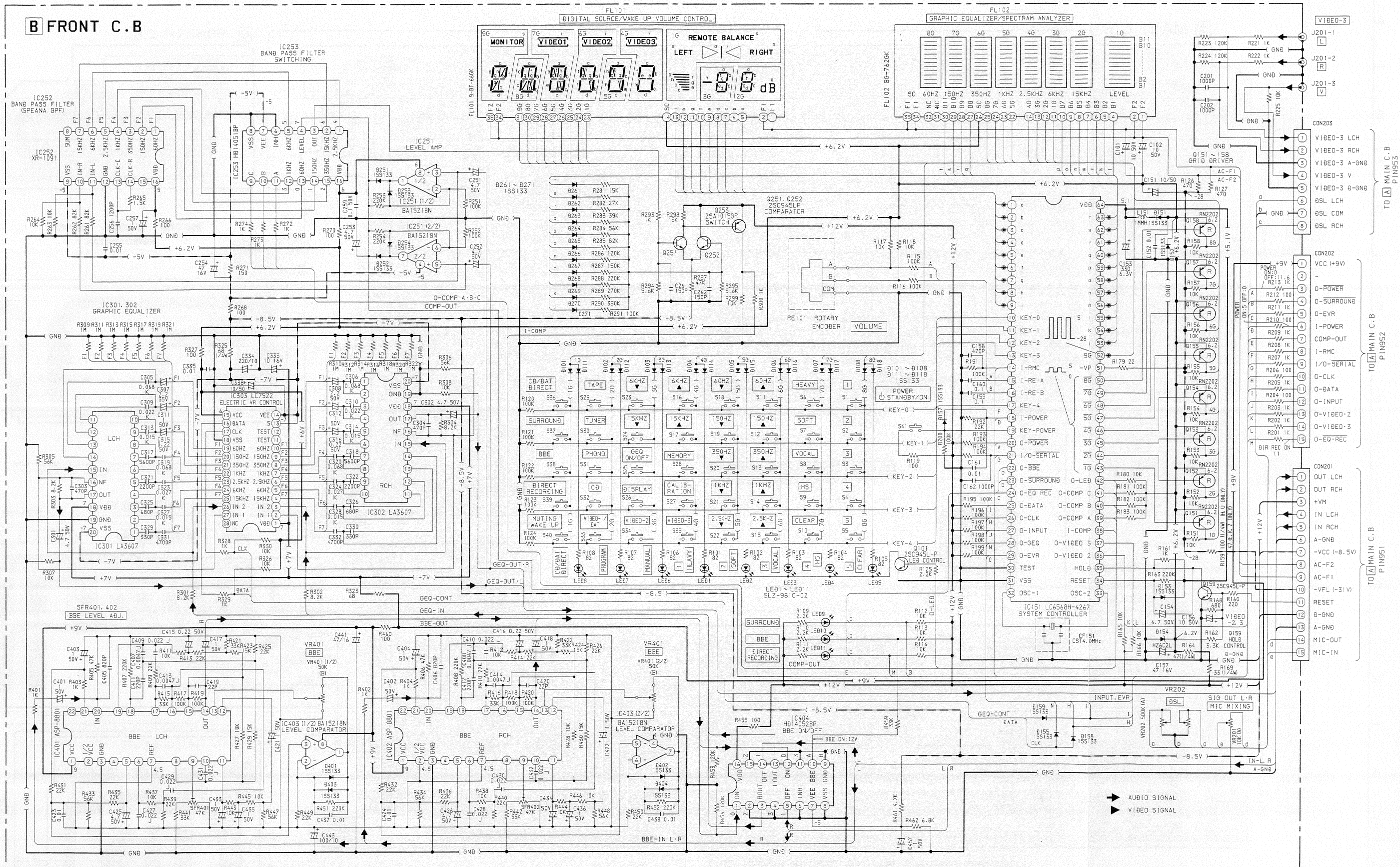
Method : Set the BBE control to minimum and adjust so that the output difference between the 1kHz and 5kHz signals is $0 \pm 0.5\text{dBm}$.



BLOCK DIAGRAM (MX — Z95M)







MODEL NO.

FX — WZ959 / WZ95

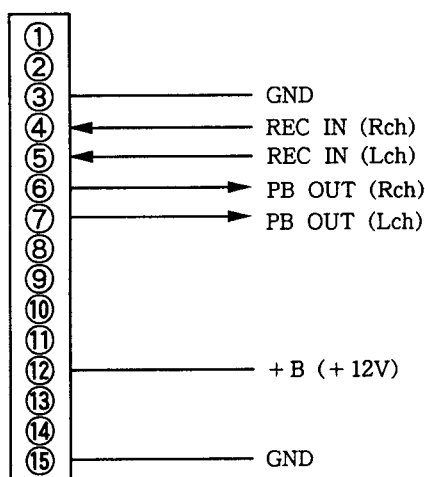
CAUTIONS WHEN SERVICING (FX — WZ959 / WZ95)

Model FX — WZ95 / WZ959 does not have a power supply circuit.
Power is supplied to it through a 15 — pin flat cable and the signal inputs/outputs are also performed through this cable.
When servicing the FX — WZ95 / WZ959 connect it to the MX — Z95M so power is supplied to the FX — WZ95 / WZ959.
If the MX — Z95M is not available, follow the procedure below.

[When servicing the unassembled FX — WZ95 / WZ959]

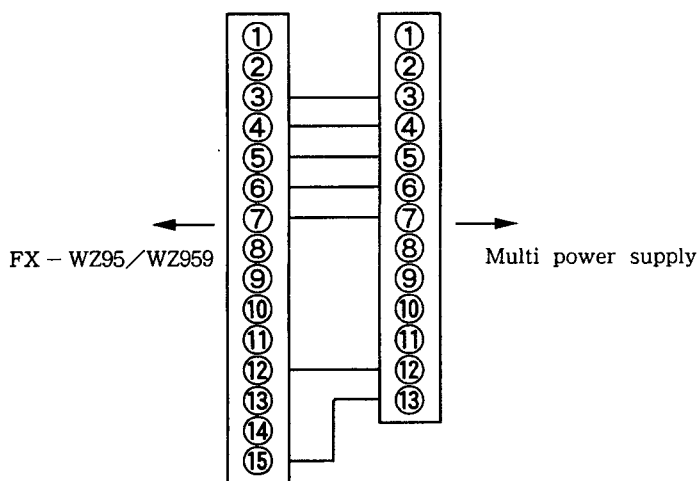
- ① Supply the following voltages to each terminal from an external power supply.

CON951

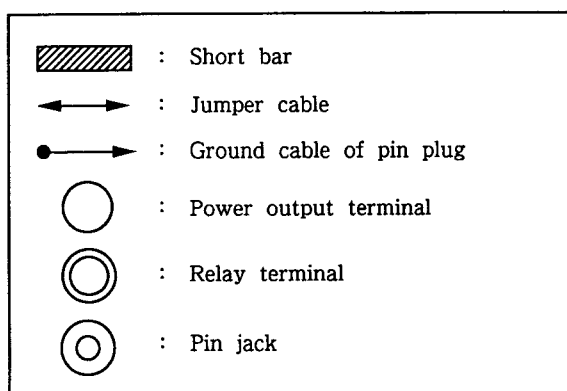


- ② Connection diagram when using multi power supply (LPS — 9088)

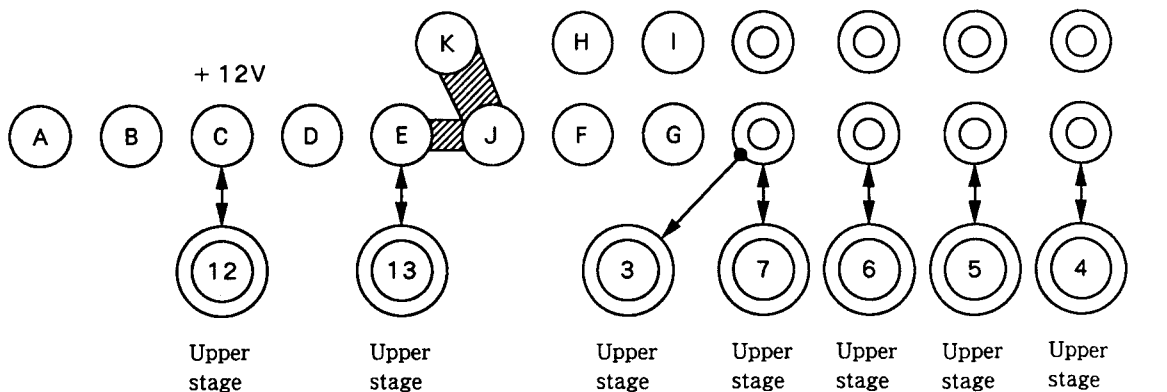
- Connect a multi — conversion harness for the type F550 to J1.



Connect a multi — conversion harness

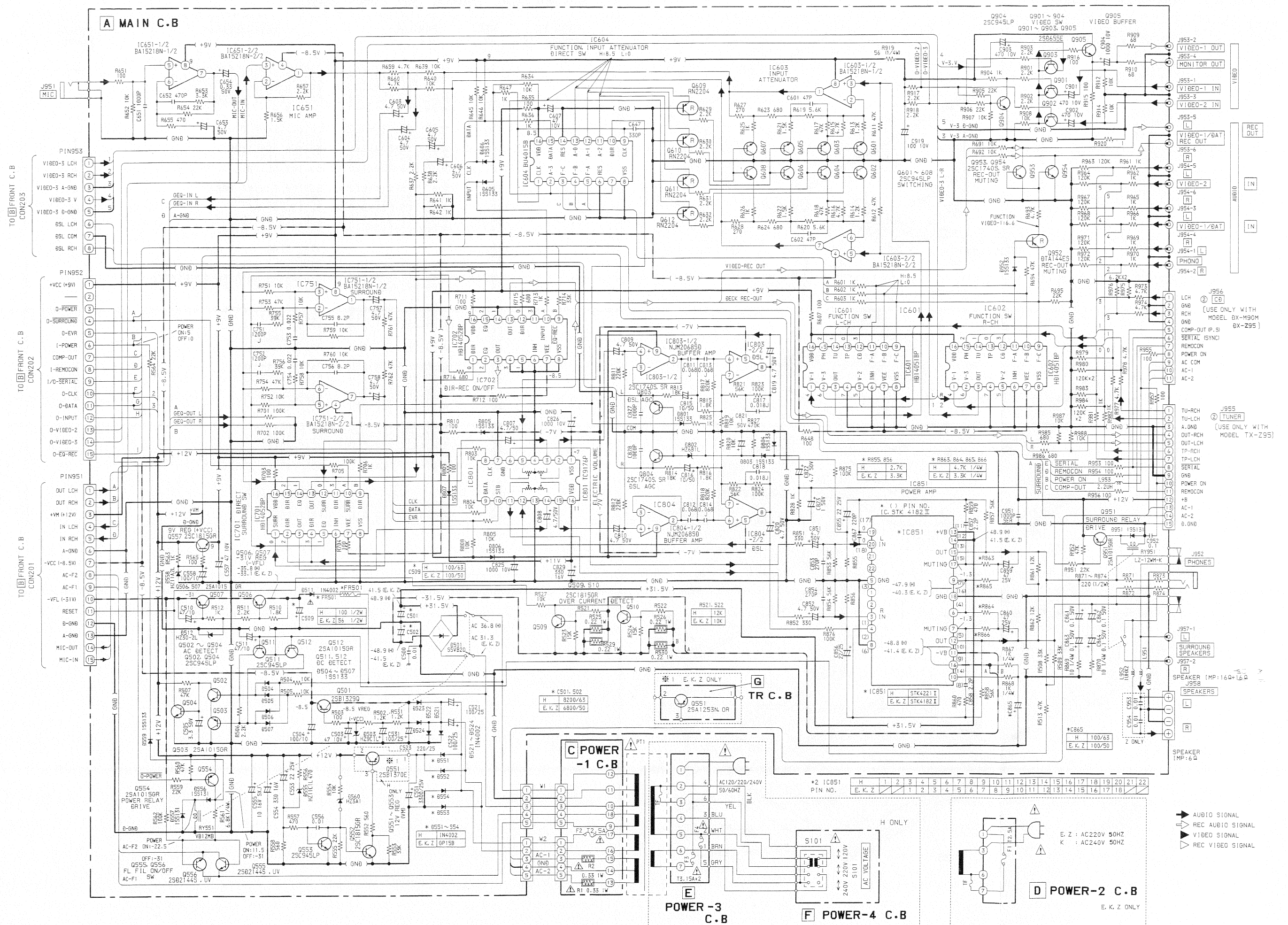


LPS — 9088
Power terminals



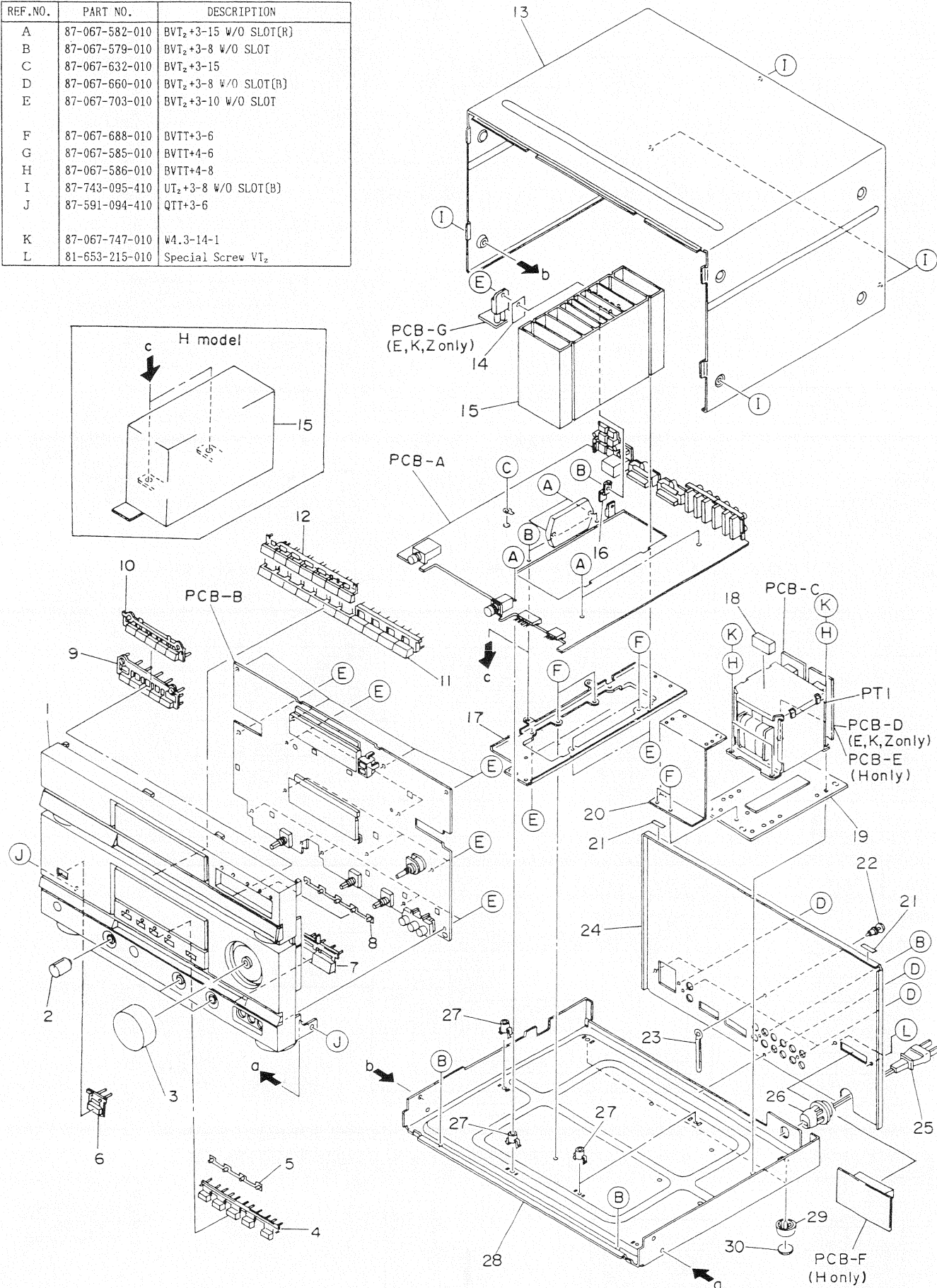
ELECTRICAL MAIN PARTS LIST (FX — WZ959/WZ95)

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
--- IC ---			C304	★87-010-404-010	CAP, ELECT 4. 7-50 SME
	87-001-440-010	IC, BA15218N	C305	★87-018-132-010	CAP, CERA-SOL 2200P-16
	87-001-908-010	IC, CXA1332S	C306	★87-018-132-010	CAP, CERA-SOL 2200P-16
	87-001-873-010	IC, LB1644	C315	★87-018-131-010	CAP, CERA-SOL 1000P-50
	S6-804-060-020	IC, LB9050A			
	89-VW6-601-010	IC, LC6568H-4316	C316	★87-018-131-010	CAP, CERA-SOL 1000P-50
	87-020-533-010	IC, M4069UBP	C401	★87-018-123-010	CAP, CERA-SOL 220P-50
	87-020-758-010	IC, NJM2068SD	C402	★87-018-123-010	CAP, CERA-SOL 220P-50
	87-020-908-010	IC, NJU4066BD	C403	★87-014-063-010	CAP, PP 1800P
--- TRANSISTOR ---			C408	★87-010-405-010	CAP, ELECT 10-50 SME
	89-502-465-019	FET, 2SK246GR	C409	★87-010-401-010	CAP, ELECT 1-50 SME
	87-026-463-010	TRANSISTOR, 2SA933S SR	C410	★87-010-381-010	CAP, ELECT 330-16 SME
	89-109-521-010	TRANSISTOR, 2SA952K	C451	★87-018-131-010	CAP, CERA-SOL 1000P-50
	89-110-155-010	TRANSISTOR, 2SA1015GR			
	87-026-462-010	TRANSISTOR, 2SC1740S SR	C453	★87-018-119-010	CAP, CEAR-SOL 100P-50
	89-112-965-010	TRANSISTOR, 2SA1296GR	C454	★87-018-119-010	CAP, CEAR-SOL 100P-50
	89-113-184-010	TRANSISTOR, 2SA1318T	C501	★87-018-127-010	CAP, CERA-SOL 470P-50
	89-318-155-010	TRANSISTOR, 2SC1815GR	C502	★87-018-127-010	CAP, CERA-SOL 470P-50
	89-406-555-010	TRANSISTOR, 2SD655E	C503	★87-018-127-010	CAP, CERA-SOL 470P-50
	S6-804-050-040	TRANSISTOR, ESA1266	C504	★87-018-127-010	CAP, CERA-SOL 470P-50
--- DIODE ---			C505	★87-010-404-010	CAP, ELECT 4. 7-50 SME
	87-001-559-010	DIODE 1SS131	C506	★87-010-404-010	CAP, ELECT 4. 7-50 SME
	87-020-465-010	DIODE 1SS133			
	87-020-123-010	DIODE DS446	C511	★87-010-545-010	CAP, ELECT 0. 22-50 SME
	87-027-475-010	DIODE, ZENER HZ6B1	C512	★87-010-545-010	CAP, ELECT 0. 22-50 SME
	87-027-332-010	DIODE, ZENER HZ6B1L	C515	★87-010-404-010	CAP, ELECT 4. 7-50 SME
--- MAIN CIRCUIT BOARD SECTION ---			C516	★87-010-404-010	CAP, ELECT 4. 7-50 SME
C101	★87-018-123-010	CAP, CERA-SOL 220P-50	C517	★87-010-252-010	CAP, ELECT 1000-6. 3
C102	★87-018-123-010	CAP, CERA-SOL 220P-50	C518	★87-010-101-010	CAP, ELECT 220-16 SME
C103	★87-018-115-010	CAP, CERA-SOL 47P-50 SL	C519	★87-010-404-010	CAP, ELECT 4. 7-50 SME
C104	★87-018-115-010	CAP, CERA-SOL 47P-50 SL	C520	★87-010-404-010	CAP, ELECT 4. 7-50 SME
C111	★87-010-404-010	CAP, ELECT 4. 7-50 SME	C601	★87-010-404-010	CAP, ELECT 4. 7-50 SME
C112	★87-010-404-010	CAP, ELECT 4. 7-50 SME	C602	★87-010-381-010	CAP, ELECT 330-16 SME
C113	★87-010-101-010	CAP, ELECT 220-16 SME	C607	★87-010-101-010	CAP, ELECT 220-16 SME
C115	★87-018-131-010	CAP, CERA-SOL 1000P-50 (WZ959)	C608	★87-010-237-010	CAP, ELECT 1000-16
C201	★87-018-120-010	CAP, CERA-SOL 330P-50	C751	★87-018-134-010	CAP, CERA-SOL 0. 01-16
C202	★87-018-120-010	CAP, CERA-SOL 330P-50	C752	★87-018-134-010	CAP, CERA-SOL 0. 01-16
C203	★87-018-115-010	CAP, CERA-SOL 47P-50 SL	C753	★87-010-382-010	CAP, ELECT 22-25 SME
C204	★87-018-115-010	CAP, CERA-SOL 47P-50 SL	C801	★87-010-221-010	CAP, ELECT 470-10
C209	★87-018-123-010	CAP, CERA-SOL 220P-50	C802	★87-010-404-010	CAP, ELECT 4. 7-50 SME
C210	★87-018-123-010	CAP, CERA-SOL 220P-50	CF801	★87-030-167-010	VIB, CER CST4. 0MHZ
C211	★87-010-404-010	CAP, ELECT 4. 7-50 SME	△FR711	87-029-019-010	RES, FUSE 2. 2-1/2W
C212	★87-010-404-010	CAP, ELECT 4. 7-50 SME	L301	★82-231-629-010	COIL 22MMH
C213	★87-010-404-010	CAP, ELECT 4. 7-50 SME	L302	★82-231-629-010	COIL 22MMH
C214	★87-010-404-010	CAP, ELECT 4. 7-50 SME	L303	★87-003-131-010	COIL 10MMH
C215	★87-010-101-010	CAP, ELECT 220-16 SME	L304	★87-003-131-010	COIL 10MMH
C217	★87-010-401-010	CAP, ELECT 1-50 SME	L305	★87-003-123-010	COIL 2. 2MMH
C218	★87-010-401-010	CAP, ELECT 1-50 SME	L306	★87-003-123-010	COIL 2. 2MMH
C219	★87-018-131-010	CAP, SERA-SOL 1000P-50 (WZ959)	L401	★81-693-608-010	COIL OSC BIAS 108K
C251	★87-018-133-010	CAP, CERA-SOL 4700P-16	L601	★87-003-060-010	COIL 12UH
C252	★87-018-100-010	CAP, CERA-SOL 4. 7P-50 SL	SFR101	★87-024-168-010	SFR 1K
C253	★87-018-132-010	CAP, CERA-SOL 2200P-16	SFR102	★87-024-168-010	SFR 1K
C255	★87-018-121-010	CAP, CERA-SOL 150P-50	SFR201	★87-024-168-010	SFR 1K
C256	★87-010-374-010	CAP, ELECT 47-10	SFR202	★87-024-168-010	SFR 1K
C257	★87-010-401-010	CAP, ELECT 1-50 SME	SFR301	★87-024-172-010	SFR 10K
C258	★87-018-100-010	CAP, CERA-SOL 4. 7P-50 SL	SFR302	★87-024-172-010	SFR 10K
C259	★87-018-131-010	CAP, CERA-SOL 1000P-50	SFR401	★87-024-176-010	SFR 100K
C301	★87-018-119-010	CAP, CEAR-SOL 100P-50	SFR402	★87-024-176-010	SFR 100K
C302	★87-018-119-010	CAP, CEAR-SOL 100P-50	--- FRONT CIRCUIT BOARD SECTION ---		
C303	★87-010-404-010	CAP, ELECT 4. 7-50 SME	C951	★87-018-127-010	CAP, CERA-SOL 470P-50
			C952	★87-018-127-010	CAP, CERA-SOL 470P-50
			C953	★87-018-127-010	CAP, CERA-SOL 470P-50
			D921	89-VW5-607-010	LED SLH-38VC (SYNC. DUBB. NORM.)
			D922	89-VW5-607-010	LED SLH-38VC (SYNC. DUBB. HIGH)
			D923	89-VW5-607-010	LED SLH-38VC (CD SYNC. REC. NORM.)
			D924	89-VW5-607-010	LED SLH-38VC (CROSS FADE)



EXPLODED VIEW (MX — Z95M)

REF.NO.	PART NO.	DESCRIPTION
A	87-067-582-010	BVT ₂ +3-15 W/O SLOT(R)
B	87-067-579-010	BVT ₂ +3-8 W/O SLOT
C	87-067-632-010	BVT ₂ +3-15
D	87-067-660-010	BVT ₂ +3-8 W/O SLOT(R)
E	87-067-703-010	BVT ₂ +3-10 W/O SLOT
F	87-067-688-010	BVT+3-6
G	87-067-585-010	BVT+4-6
H	87-067-586-010	BVT+4-8
I	87-743-095-410	UT ₂ +3-8 W/O SLOT(B)
J	87-591-094-410	QT+3-6
K	87-067-747-010	W4.3-14-1
L	81-653-215-010	Special Screw VT ₂



MECHANICAL PARTS LIST (MX — Z95M)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	1	★09-047-647-010	CABINET, FRONT ASSY(H)	*	1
	1	★09-047-646-010	CABINET, FRONT ASSY(E, K, Z)	*	1
	2	★89-VP5-006-010	KNOB, ROTARY DSL		3
	3	★89-VP5-005-119	KNOB, ROTARY VOLUME		1
	4	★89-VP5-026-019	BUTTON, D1		1
	5	★89-VP5-025-019	GUIDE, LIGHT D1		1
	6	★80-VP5-023-019	BUTTON, POWER	*	1
	7	★80-VP5-024-010	BUTTON, FUNCTION	*	1
	8	★89-VP5-017-019	GUIDE, LIGHT GE1		1
	9	★80-VP5-020-110	BUTTON, GE PRE2	*	1
	10	★80-VP5-014-010	BUTTON, TUNING PRE1	*	1
	11	★80-VP5-022-010	BUTTON, GE DOWN	*	1
	12	★80-VP5-021-010	BUTTON, GE UP	*	1
	13	★89-VP5-027-010	CABINET, STEEL	*	1
	14	★89-AA1-602-010	SHEET, T03PL M1CA		1
	15	---	HEAT SINK		1
	16	---	HOLDER, IC		1
	17	89-VP5-209-010	HOLDER, HEAT SINK H1(E, K, Z)		1
	18	★89-VP5-214-010	G-CUSHION, S015-30-12(E, K, Z)		1
	19	89-VP5-631-010	SHIELD CORE, PT F		2
	20	89-VP5-632-010	SHIELD CORE, PT L		1
	21	★82-179-259-010	SHEET, 4-12		2
	22	★87-084-077-010	NYLON RIVET, 3.5-4.5		1
	23	---	WIRE BINDER		1
	24	★80-VP5-030-010	PANEL, REAR(H)	*	1
	24	★80-VP5-029-010	PANEL, REAR(AH)	*	1
	24	★80-VP5-031-010	PANEL, REAR(E)	*	1
	24	★80-VP5-032-010	PANEL, REAR(K)	*	1
	24	★80-VP5-033-010	PANEL, REAR(Z)	*	1
	25	★82-187-797-010	AC CORD(H)		1
	25	★87-034-749-010	AC CORD(AH)		1
	25	★87-034-781-010	AC CORD(E, Z)		1
	25	★87-034-592-010	AC CORD(K)		1
	26	★87-085-185-010	BUSHING, AC CORD(EXCEPT AH)		1
	26	★87-085-184-010	BUSHING, AC CORD(AH)		1
	27	---	HOLDER, P. C. B		4
	28	---	CHASSIS, MAIN		1
	29	★87-085-213-010	FOOT, H12.5		2
	30	★89-VW5-212-010	FELT, FOOT		2

REF. NO.	PART NO.	DESCRIPTION
D925	89-VW5-607-010	LED SLH-38VC (CD. SYNC. REC HIGH) (WZ959)
D926	89-VW5-606-010	LED SLH-38MC (FWD, D2)
D927	89-VW5-606-010	LED SLH-38MC (REV, D2)
D928	89-VW5-608-010	LED SLH-38YC (PAUSE, D2)
D929	89-VW5-606-010	LED SLH-38MC (FWD, D1)
D930	89-VW5-606-010	LED SLH-38MC (REV, D1)
D935	89-VW5-607-010	LED SLH-38VC (REC/REC MUTE, D2)
S901	87-036-142-010	TACT SW (OPEN/CLOSE, D2)
S902	87-036-142-010	TACT SW (OPEN/CLOSE, D1)
S903	87-036-142-010	TACT SW (<<MS, D1)
S904	87-036-142-010	TACT SW (PLAY/DIR, D1)
S905	87-036-142-010	TACT SW (STOP, D1)
S906	87-036-142-010	TACT SW (MS>>, D1)
S907	87-036-142-010	TACT SW (REC/REC MUTE, D2)
S908	87-036-142-010	TACT SW (PAUSE, D2)
S909	87-036-142-010	TACT SW (MS<<, D2)
S910	87-036-142-010	TACT SW (PLAY/DIR, D2)
S911	87-036-142-010	TACT SW (STOP, D2)
S912	87-036-142-010	TACT SW (MS>>, D2)
S913	87-036-142-010	TACT SW (SYNC. DUBB. NORM.)
S914	87-036-142-010	TACT SW (SYNC. DUBB. HIGH)
S915	87-036-142-010	TACT SW (CD SYNC. REC NORM.)
S916	87-036-142-010	TACT SW (CROSS FADE)
S917	87-036-110-010	PUSH SW (OPEN, D2)
S918	87-036-109-010	PUSH SW (CLOSE, D2)
S919	87-036-109-010	PUSH SW (OPEN, D1)
S920	87-036-110-010	PUSH SW (CLOSE, D1)
S931	87-036-087-010	SLIDE SW (REV MODE)
S932	87-036-087-010	SLIDE SW (TIMER)
S933	87-036-086-010	SLIDE SW (DOLBY B/C NR)
S934	87-036-142-010	TACT SW (CD SYNC. REC HIGH) (WZ959)

=== DECK-1 CIRCUIT BOARD SECTION ===

S1	S6-401-011-740	LEAF SW (PLAY)
S2	S6-401-011-750	LEAF SW (FR)
S3	S6-401-011-730	LEAF SW (CST)
S4	S6-401-011-730	LEAF SW (CR02)
SFR1	★S6-816-010-010	SFR 4.7K
SFR2	★S6-816-010-010	SFR 4.7K
SOL1	S1-880-210-130	SOLENOID (PLAY)
SOL2	S1-880-210-130	SOLENOID (F/R)

=== DECK-2 CIRCUIT BOARD SECTION ===

S1	S6-401-011-740	LEAF SW (PLAY)
S2	S6-401-011-750	LEAF SW (FR)
S3	S6-401-011-730	LEAF SW (CST)
S4	S6-401-011-730	LEAF SW (CR02)
S5	S6-401-011-730	LEAF SW (REA)
S6	S6-401-011-730	LEAF SW (REB)
SFR1	★S6-816-010-010	SFR 4.7K
SFR2	★S6-816-010-010	SFR 4.7K
SOL1	S1-880-210-130	SOLENOID (PLAY)
SOL2	S1-880-210-130	SOLENOID (F/R)

=== RELAY (D1) CIRCUIT BOARD SECTION ===

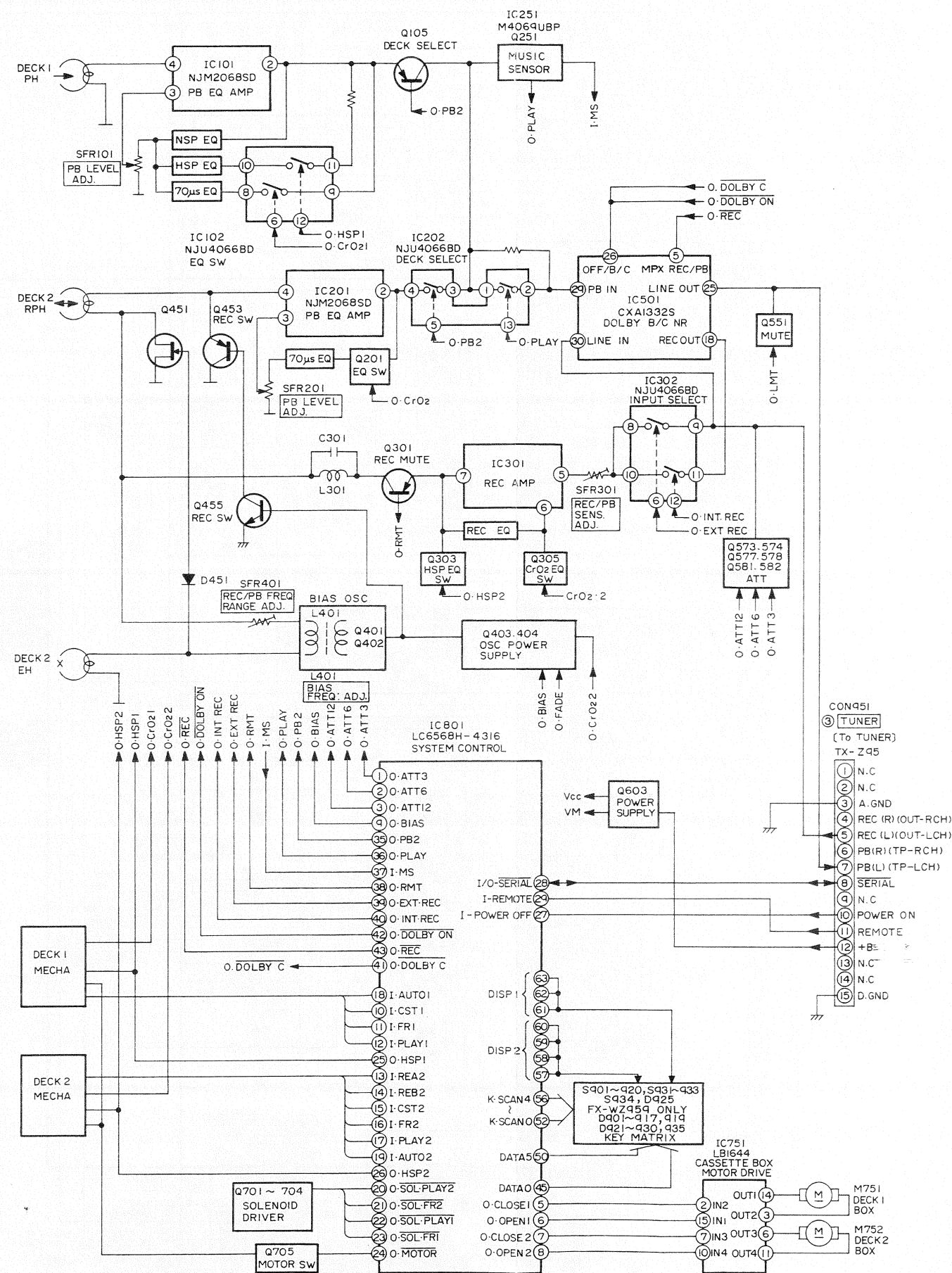
=== RELAY (D2) CIRCUIT BOARD SECTION ===

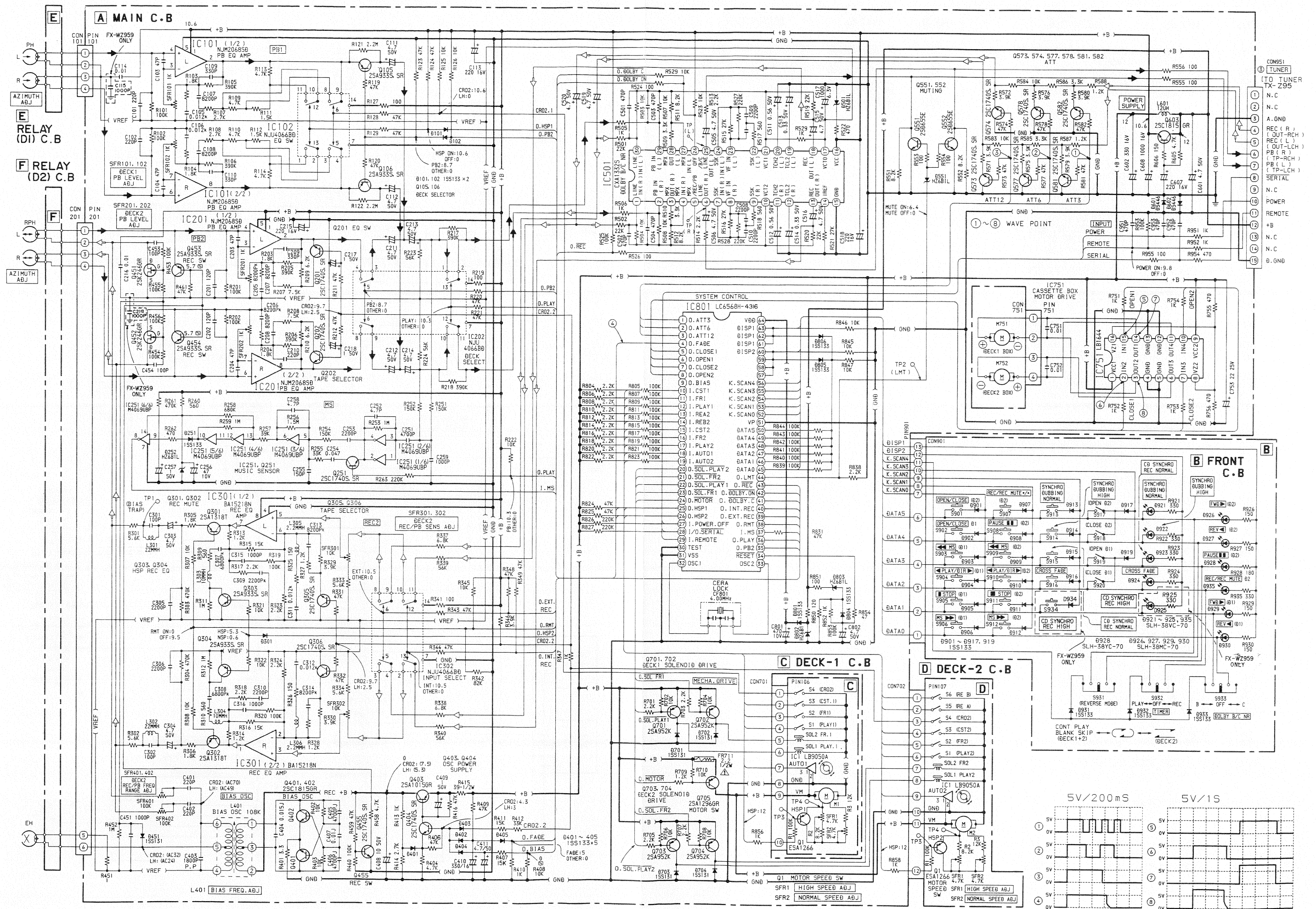
=== MISCELLANEOUS ===

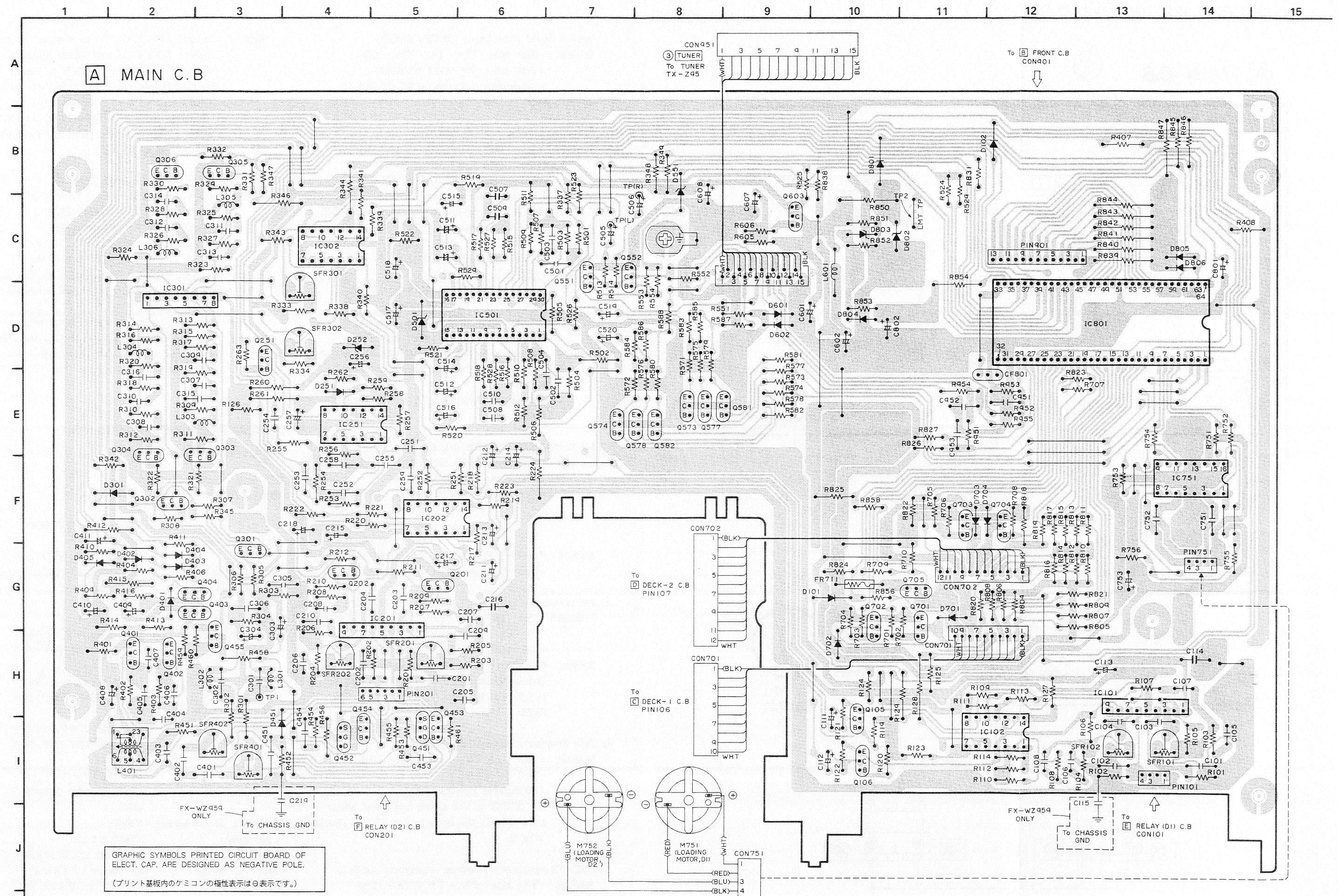
CON951	89-VW5-610-010	CORD, FG 15P (3 TUNER)
--------	----------------	------------------------

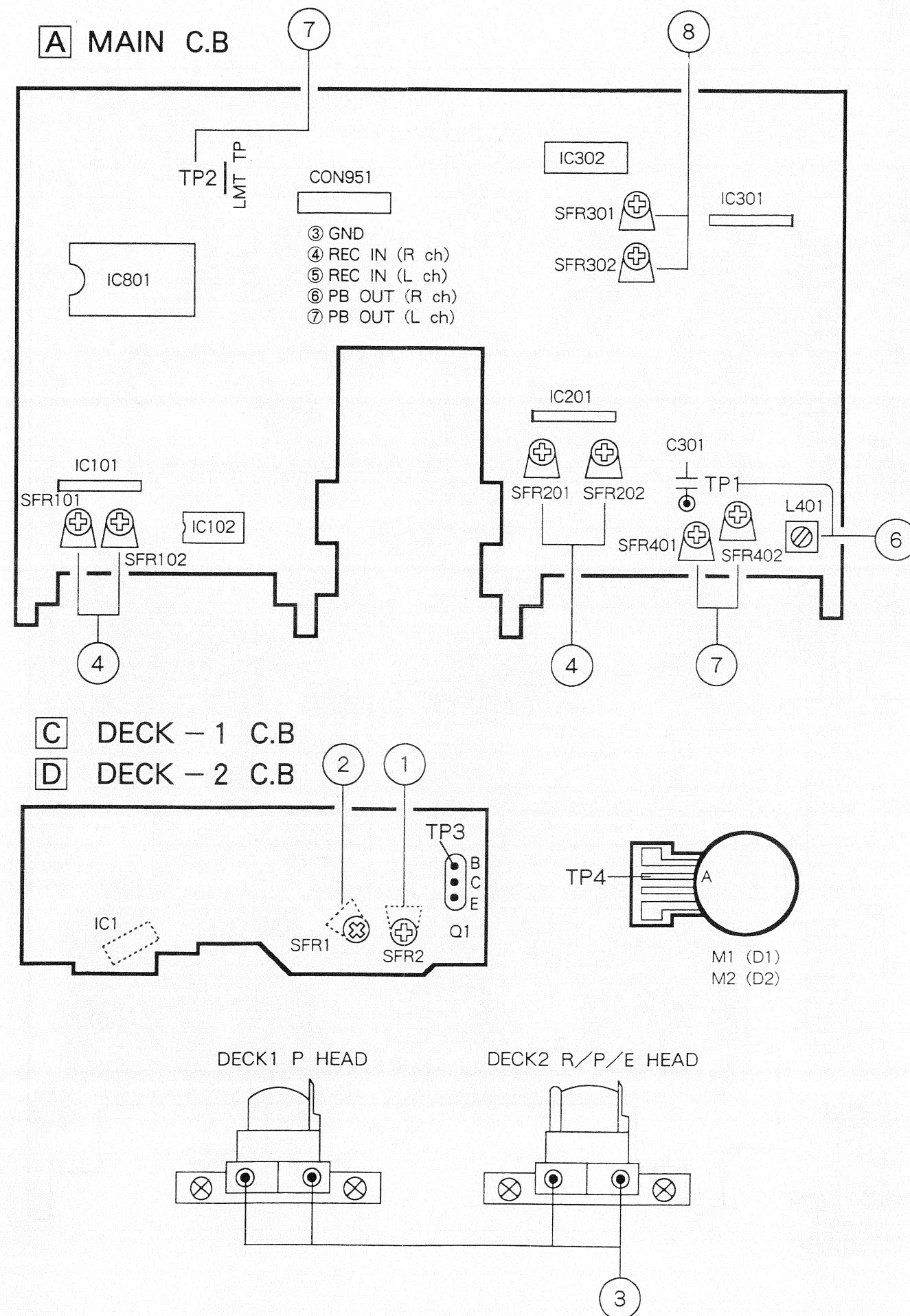
REF. NO.	PART NO.	DESCRIPTION
M1	S6-005-030-420	MOTOR MMI-6H2LWK (D1)
M2	S6-005-030-420	MOTOR MMI-6H2LWK (D2)
M751	87-045-305-010	MOTOR RF-500TB (D1) (BOX)
M752	87-045-305-010	MOTOR RF-500TB (D2) (BOX)
PH	S6-204-070-090	PB HEAD (D1)
RPEH	S6-204-040-010	R/P/E, HEAD (D2)

BLOCK DIAGRAM (FX - WZ959/WZ95)









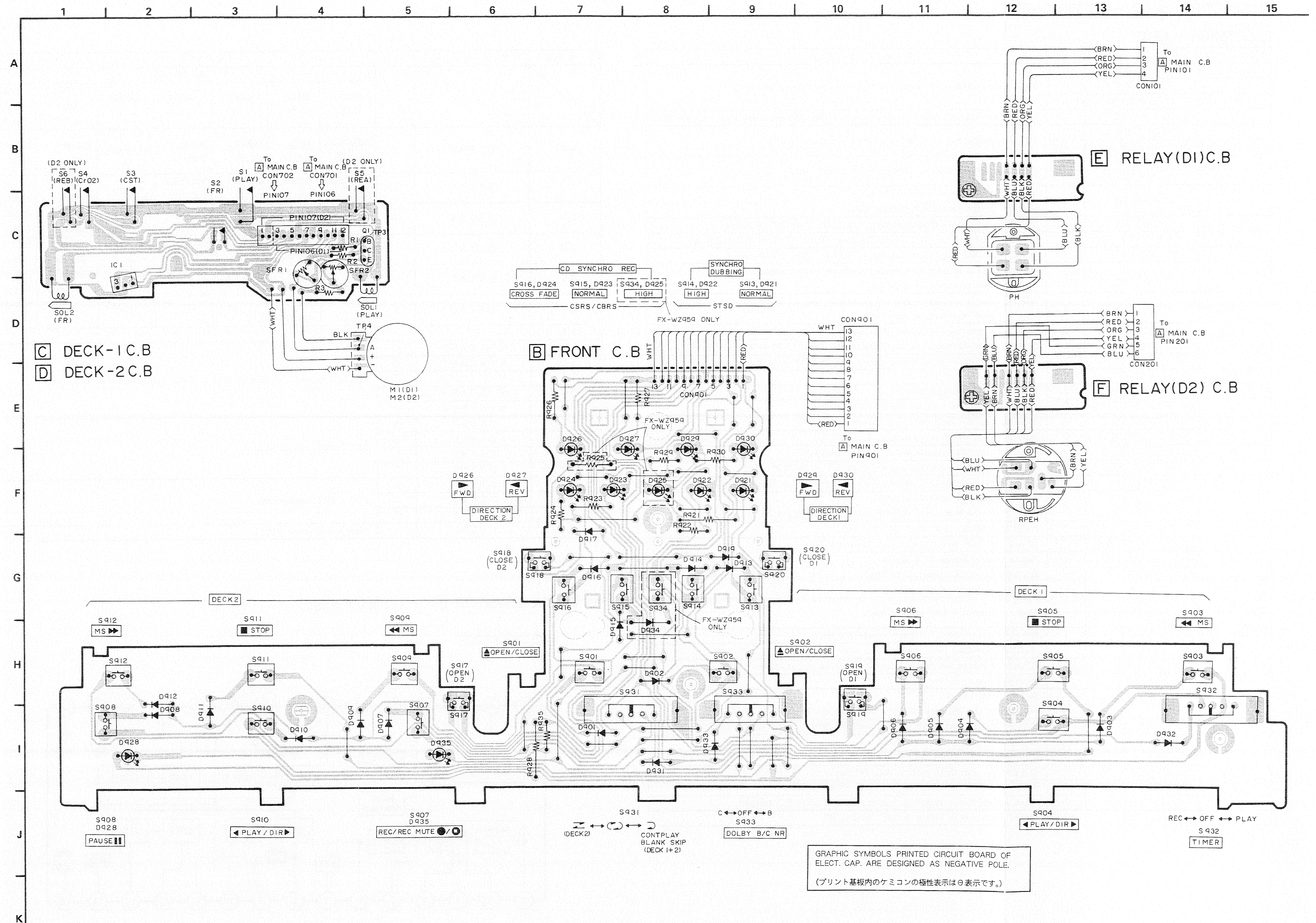
- Normal Speed Adjustment (DECK1, DECK2)
Settings : • Test tape : TTA — 100 (TTA — 111S)
• Test point : PB — OUT (CON951)
• Adjustment Location : SFR2 (DECK1, 2)
Method : Play back the test tape, adjust for 3000Hz.
- High Speed Adjustment (DECK1, DECK2)
Settings : • Test tape : TTA — 100 (TTA — 111S)
• Test point : PB — OUT (CON951)
• Adjustment Location : SFR1 (DECK1, 2)
Method : Play back the test tape, and make the high speed condition to be shorted between TP3 and TP4. Adjust for 5400Hz \pm 15Hz.
- Head Azimuth Adjustment (DECK1, DECK2)
Settings : • Test tape : TTS — 310 (TTA — 317E, SCC — 1429)
• Test point : PB — OUT (CON951)
• Adjustment Location : Head azimuth adjustment screw
Method : Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum.
Next, perform on each FWD PLAY and REV PLAY mode.
- PB Level Adjustment (DECK1, DECK2)
Settings : • Test tape : TTS — 200 (TTA — 161, TCC — 130)
• Test point : PB — OUT (CON951)
• Adjustment Location : SFR101 (DECK1, Lch)
SFR102 (DECK1, Rch)
SFR201 (DECK2, Lch)
SFR202 (DECK2, Rch)
Method : Play back the test tape and adjust so that the output becomes 300mV \pm 20mV.
- PB Frequency Response Check (DECK1, DECK2)
Settings : • Test tape : TTS — 310 (TTA — 317E, SCC — 1429)
• Test point : PB — OUT (CON951)
Method : Play the 315Hz and 10kHz signals of the test tape and check the output of the 10kHz signal is 0dB \pm 2.5dB with respect to that of the 315Hz signal.
- Bias Frequency Adjustment (DECK2)
Settings : • Test tape : TTA — 600 (TTA — 119K)
• Test point : TP1
• Adjustment Location : L401
Method : Set DECK2 to the record mode and adjust L401 so that the frequency at TP1 is 108kHz \pm 1kHz.
- REC/PB Frequency Response Adjustment (DECK2)
Settings : • Test tape : TTA — 600 (TTA — 119K)
• Test point : PB — OUT (CON951)
• Input signal : REC — IN (CON951)
• Adjustment Location : SFR401 (Lch)
SFR402 (Rch)

Method : Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 21mV.
Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is 0dB + 2dB, - 0.5dB for 1kHz signal. After adjustment, remove the grounding lead wire.

- REC/PB Sensitivity Adjustment (DECK2)
Settings : • Test tape : TTA — 600 (TTA — 119K)
• Test point : PB — OUT (CON951)
• Input signal : REC — IN (CON951)
• Adjustment Location : SFR301 (Lch)
SFR302 (Rch)
Method : Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 21mV.
Record and play back the 1kHz signal and adjust SFR301 and SFR302 so that the output level of is 21mV \pm 1.5dB. After adjustment, remove the grounding lead wire.

PRACTICAL SERVICE FIGURE (FX — WZ959/WZ95)


PB output level :	300mV \pm 1dB TTS — 200 (TTA — 161, TCC — 130)
REC/PB output level :	210mV \pm 1dB (PB OUT, - 16.5dBV 1kHz)
Distortion (REC/PB) :	Less than 2.0% (NORM., CrO2)
Erasing ratio :	More than 60dB
Crosstalk :	More than 60dB
Channel separation :	More than 30dB
Noise (REC/PB) :	Less than 3.3mV/1.6mV/ 1.3mV (DOLBY OFF/B/C NORM.) Less than 2.2mV/1.3mV/ 1.0mV (DOLBY OFF/B/C CrO2)
Noise (PB) :	Less than 3.2mV/1.5mV/ 1.2mV (DOLBY OFF/B/C NORM.) Less than 2.2mV/1.2mV/ 1.0mV (DOLBY OFF/B/C CrO2)
Recording bias frequency :	108kHz
Tape speed :	3000Hz \pm 1.5%
Wow & flutter (W.RMS) :	Less than 0.13% (DECK1, 2)
Take — up torque :	30~60g-cm (DECK1, 2)
F.F & REW torque :	55~120g-cm (DECK1, 2)
Back tension :	2~6g-cm (DECK1, 2)
Test tape :	NORMAL : TTA — 600 (TTA — 119K) CrO2 : TTA — 610 (TTA — 119H)



IC DESCRIPTION (FX — WZ959/WZ95)

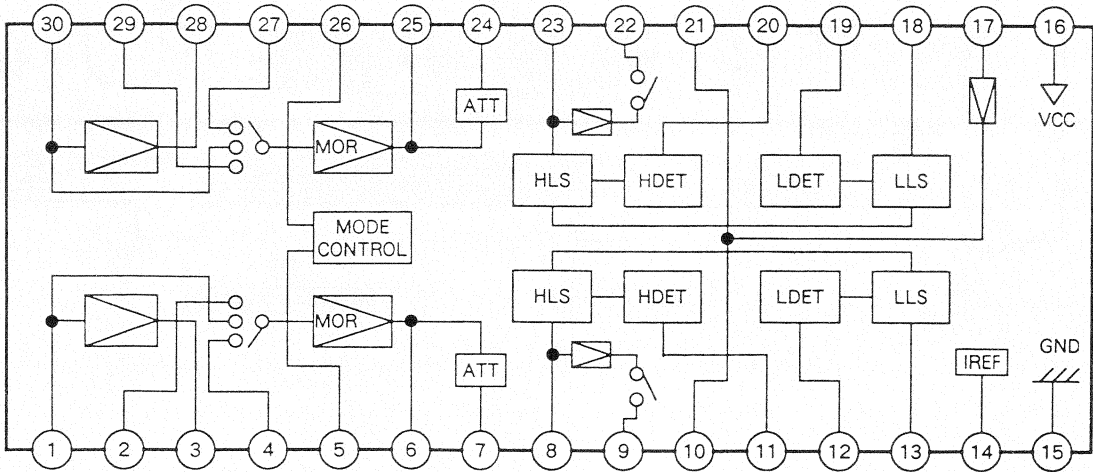
IC,LC6568H — 4316

Pin No.	Pin Name	I/O	Description
1	O • ATT3	O	Input signal level control output from the cross fade. Active "H".
2	O • ATT6	O	
3	O • ATT12	O	
4	O • FADE	O	DECK 2 Recording bias oscillation output at the CBRS and cross fade. Active "H".
5	O • CLOSE1	O	DECK 1 Cassette box motor drive control output. Active "H".
6	O • OPEN1	O	
7	O • CLOSE2	O	
8	O • OPEN2	O	DECK 2 Cassette box motor drive control output. Active "H".
9	O • BIAS	O	DECK 2 Recording bias oscillation output. Goes "H" in the record and dubbing modes.
10	I • CST1	I	DECK 1 Cassette tape detection switching input. Goes "L" switch on.
11	I • FR1	I	DECK 1 FF and FWD detection switching input. Goes "L" FF or RWD switch on.
12	I • PLAY1	I	DECK 1 PLAY detection switching input. Goes "L" PLAY switch on.
13	I • REA2	I	DECK 2 Side A's accidental erasure prevention switch input. Goes "L" when recording is possible.
14	I • REB2	I	DECK 2 Side B's accidental erasure prevention switch input. Goes "L" when recording is possible.
15	I • CST2	I	DECK 2 Cassette tape detection switching input. Goes "L" switch on.
16	I • FR2	I	DECK 2 FF and RWD detection switching input. Goes "L" FF or RWD switch on.
17	I • PLAY2	I	DECK 2 PLAY detection switching input. Goes "L" PLAY switch on.
18	I • AUTO1	I	DECK 1 Reel disk pulse input.
19	I • AUTO2	I	DECK 2 Reel disk pulse input.
20	O • SOL • PLAY2	O	DECK 2 PLAY solenoid drive output. Active "L".
21	O • SOL • FR2	O	DECK 2 FF and RWD solenoid drive output. Active "L".
22	O • SOL • PLAY1	O	DECK 1 PLAY solenoid drive output. Active "L".
23	O • SOL • FR1	O	DECK 1 FF and RWD solenoid drive output. Active "L".
24	O • MOTOR	O	DECK 1/2 Main motor control output. Goes "L" in the STOP mode.
25	O • HSP1	O	DECK 1 High speed control output. Goes "H" in the high speed dubbing mode.
26	O • HSP2	O	DECK 2 High speed control output. Goes "H" in the high speed dubbing mode. (Tape deck and CD)
27	I • POWER OFF	I	Power off signal input. Goes "L" when off.
28	I/O SERIAL	I/O	CD and amplifier serial data input and output.
29	I • REMOTE	I	Remote control serial data input.
30	TEST	—	MPU test pin to be connected to VSS.
31	VSS	—	MPU I/O and power supply common pin.
32	OSC1	—	Pins to generate a 4MHz clock signal.
33	OSC2	—	
34	RESET	I	MPU reset input. Goes "L" input resets the MPU.
35	O • PB2	O	DECK 1/2 PB output level control pin. Goes "H" in the DECK 2 PB.
36	O • PLAY	O	CUE/REVIEW muting and MS sensitivity switching output. Goes "H" PB.
37	I • MS	I	MS signal input. Active "H".
38	O • RMT	O	Record muting output. Goes "H" in the REC mute, recording I/O and REC pause.
39	O • EXT • REC	O	DECK 2 Recording switching output. Goes "H" DECK 1 PB and DECK 2 REC.
40	O • INT • REC	O	DECK 2 Recording switching output. Goes "H" in the record and dubbing modes. Goes "L" in the O • EXT • REC "H".
41	O • DOLBY C	O	Dolby NR B/C switching output. Goes "H" Dolby C.
42	O • DOLBY ON	O	Dolby NR ON/OFF switching output. Goes "H" Dolby on.
43	O • REC	O	Dolby encode/decode switching output. Goes "H" REC, "L" dubbing.
44	O • LMT	O	Record and playback muting output. Active "H".

Pin No.	Pin Name	I/O	Description						
			KEY DATA IN						
			KSCAN0 is "H"	KSCAN1 is "H"	KSCAN2 is "H"	KSCAN3 is "H"	KSCAN4 is "H"	DISP1 lights at "H"	DISP2 lights at "H"
45	DATA0	I	OPEN/CLOSE 2 KEY IN	REC2 KEY IN	N•DUBB KEY IN	BOX OPEN 2 KEY IN	CONT PLAY BLANK SKIP SW IN	N•DUBB lights	F•PLAY2 lights
46	DATA1	I	OPEN/CLOSE 1 KEY IN	PAUSE2 KEY IN	H•DUBB KEY IN	BOX CLOSE 2 KEY IN	 SW IN	H•DUBB lights	R•PLAY2 lights
47	DATA2	I	RWD1 KEY IN	RWD2 KEY IN	CD•REC KEY IN	BOX OPEN 1 KEY IN	TIMER PLAY SW IN	CD•REC lights	PAUSE2 lights
48	DATA3	I	PLAY1 KEY IN	PLAY2 KEY IN	CROSS FADE KEY IN	BOX CLOSE 1 KEY IN	TIMER REC SW IN	CROSS FADE lights	REC2 lights
49	DATA4	I	STOP1 KEY IN	STOP2 KEY IN	CD•HSP•REC KEY IN		DOLBY B SW IN	CD•HSP• REC lights	F•PLAY1 lights
50	DATA5	I	FF1 KEY IN	FF2 KEY IN					R•PLAY1 lights
51	VP	—	GND.						
52	K•SCAN0	O	KEY SCAN outputs for DATA 0~DATA 5. These pins output "H" when reset.						
53	K•SCAN1	O							
54	K•SCAN2	O							
55	K•SCAN3	O							
56	K•SCAN4	O							
57	DISP2	O	DISP 2 INDI. output pin.						
58	DISP2	O							
59	DISP2	O							
60	DISP2	O							
61	DISP1	O	DISP 1 INDI. output pin.						
62	DISP1	O							
63	DISP1	O							
64	VDD	—	Power supply pin. (+5V)						

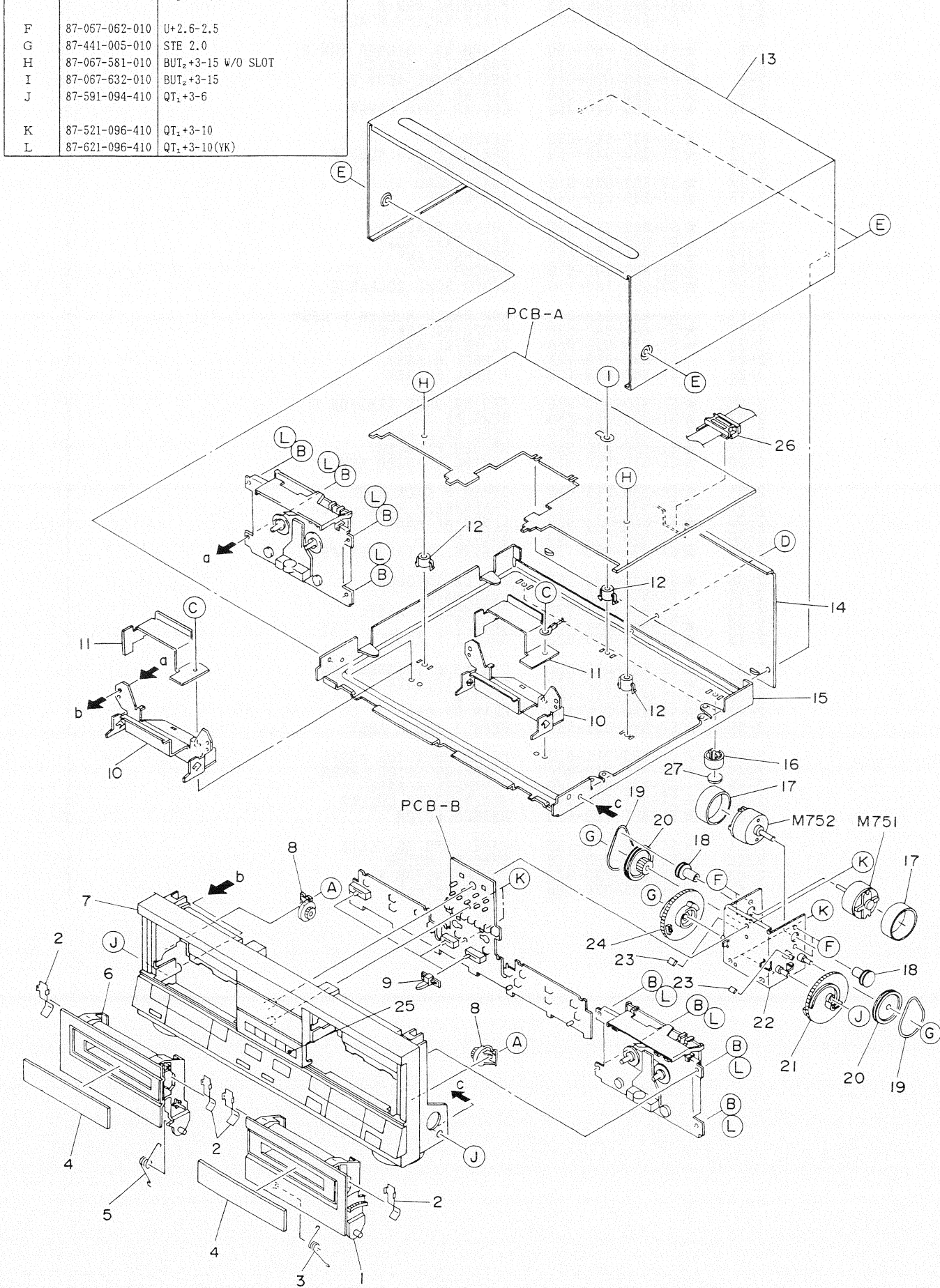
IC BLOCK DIAGRAM (FX — WZ959/WZ95)

IC,CXA1332S



EXPLODED VIEW — 1 (FX — WZ959/WZ95)

REF.NO.	PART NO.	DESCRIPTION
A	87-067-703-010	BVT ₂ +3-10 W/O SLOT
B	87-621-097-410	QT ₁ +3-12(Y)
C	87-067-584-010	BVT ₂ +3-6 W/O SLOT
D	87-067-660-010	BVT ₂ +3-8 W/O SLOT
E	87-743-095-410	UT ₂ +3-8(B)
F	87-067-062-010	U+2.6-2.5
G	87-441-005-010	STE 2.0
H	87-067-581-010	BUT ₂ +3-15 W/O SLOT
I	87-067-632-010	BUT ₂ +3-15
J	87-591-094-410	QT ₁ +3-6
K	87-521-096-410	QT ₁ +3-10
L	87-621-096-410	QT ₁ +3-10(YK)

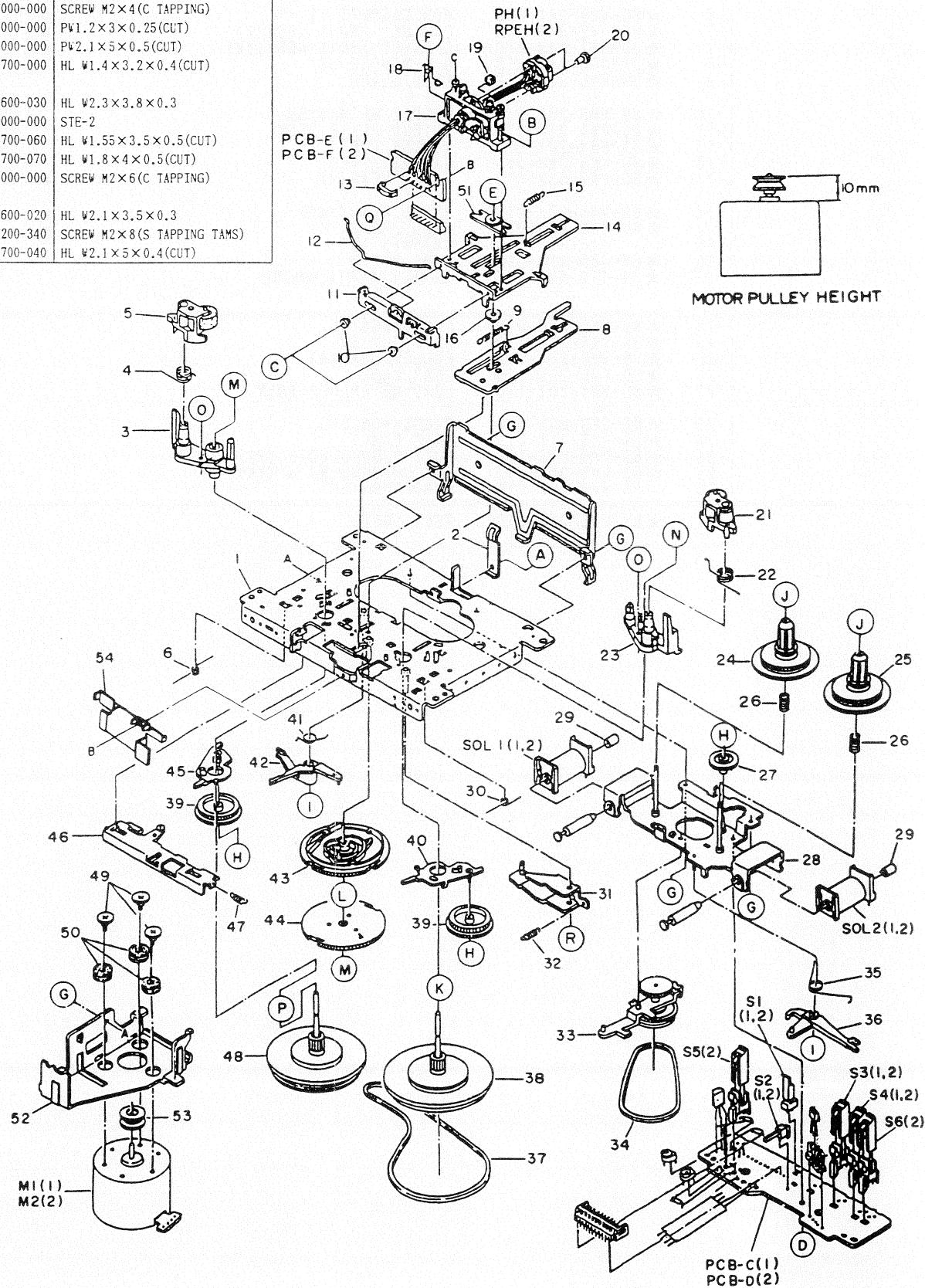


MECHANICAL PARTS LIST (FX — WZ959/WZ95)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	1-1	★80-VW5-022-019	BOX, CASSETTE 2	*	1
	1-2	★82-202-217-110	P-SPRING, CASSETTE HOLDER		4
	1-3	★89-VW5-203-010	T-SPRING, EJECT 2		1
	1-4	★80-VW5-015-019	WINDOW, 1	*	2
	1-5	★89-VW5-202-010	T-SPRING, EJECT 1		1
	1-6	★80-VW5-021-019	BOX, CASSETTE 1	*	1
	1-7	★09-047-648-010	CABINET FRONT ASSY(Y)	*	1
	1-7	★09-047-649-010	CABINET FRONT ASSY(YK)	*	1
	1-8	★87-063-144-010	OIL-DAMPER 37		2
	1-9	★89-VW5-011-019	KNOB, SLIDE		3
	1-10	★89-VW5-201-010	HOLDER, MECHANISM		2
	1-11	★89-VW5-214-019	SHIELD PLATE, DECK		2
	1-12	★81-664-202-010	HOLDER, PCB		3
	1-13	★89-VW5-018-010	CABINET, STEEL		1
	1-14	★80-VW5-032-010	PANEL, REAR(Y)	*	1
	1-14	★80-VW5-038-010	PANEL, REAR(YNE)	*	1
	1-14	★80-VW5-034-010	PANEL, REAR(YK)	*	1
	1-15	---	CHASSIS, AMP		1
	1-16	★87-085-213-019	FOOT, H12.5		2
	1-17	★82-110-647-010	SHIELD PLATE, MOTOR		2
	1-18	★89-VW5-206-019	PULLEY, MOTOR		2
	1-19	★89-VW5-216-010	BELT, SQ1.5M		2
	1-20	★89-VW5-204-119	PULLEY, LOADING		2
	1-21	★89-VW5-205-119	GEAR, CAM2		1
	1-22	★89-VW5-207-110	LOADING HOLDER ASSY		1
	1-23	★82-679-233-010	G-CUSHION, 5-5		1
	1-24	★89-VW5-211-019	GEAR, CAM 1		1
	1-25	★89-VW5-019-119	BUTTON, DUBBING 5 (Y)		1
	1-25	★89-VW5-010-019	BUTTON, DUBBING 4 (YK)		1
	1-26	89-VT5-202-010	CORD, BUSHING		1
	1-27	★89-VW5-212-010	FELT, FOOT		2

EXPLODED VIEW - 2 (FX - WZ959/WZ95)

REF.NO.	PART NO.	DESCRIPTION
A	S9-178-000-000	SPECIAL SCREW M2X3(C TAPPING)
B	S9-078-000-000	SCREW M2X5(TAMS)
C	S9-547-000-000	SCREW M1.7X3(CAMERA)
D	S9-999-200-200	SCREW M2X5(S TAPPING TAMS)
E	S9-999-180-160	SPECIAL SCREW M2X5
F	S9-117-000-000	SCREW M2X5(BIND)
G	S9-180-000-000	SCREW M2X4(C TAPPING)
H	S9-421-000-000	PW1.2X3X0.25(CUT)
I	S9-876-000-000	PW2.1X5X0.5(CUT)
J	S9-999-700-000	HL W1.4X3.2X0.4(CUT)
K	S9-999-600-030	HL W2.3X3.8X0.3
L	S9-502-000-000	STE-2
M	S9-999-700-060	HL W1.55X3.5X0.5(CUT)
N	S9-999-700-070	HL W1.8X4X0.5(CUT)
O	S9-182-000-000	SCREW M2X6(C TAPPING)
P	S9-999-600-020	HL W2.1X3.5X0.3
Q	S9-999-200-340	SCREW M2X8(S TAPPING TAMS)
R	S9-999-700-040	HL W2.1X5X0.4(CUT)



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	2-1	---	CHASSIS ASSY		1
	2-2	★S1-829-100-010	SPRING, PACK		1
	2-3	★S1-880-090-090	FL METAL ASSY		1
	2-4	★S1-880-040-040	P-SPRING, ARM R		1
	2-5	S1-880-043-020	PINCH ROLLER R ASSY		1
	2-6	★S1-880-050-190	T-SPRING, TRIGGER ARM R		1
	2-7	★S1-880-530-020	PROTECTOR, SWITCH		1
	2-8	★S1-880-025-010	HEAD PANEL ASSY B		1
	2-9	★S1-880-020-050	SPRING, PANEL		1
	2-10	★S1-865-020-280	COLLAR, CHIP LEVER		2
	2-11	★S1-880-020-060	LEVER, CHIP		1
	2-12	★S1-880-040-050	SPRING, PINCH ROLLER		1
	2-13	---	CLAMP, WIRE		1
	2-14	★S1-880-020-010	PANEL, HEAD A		1
	2-15	★S1-880-020-040	SPRING, RC		1
	2-16	★S1-880-020-190	COLLAR, PANEL A		1
	2-17	★S1-865-023-060	HEAD BASE ASSY		1
	2-18	★S1-865-020-600	SPRING, CLAMP		1
	2-19	★S1-865-090-610	SPACER		1
	2-20	★S9-999-180-170	SCREW, HEAD COLLAR C		2
	2-21	S1-880-043-010	ARM PINCH ROLLER F ASSY		1
	2-22	★S1-880-040-030	P-SPRING, ARM F		1
	2-23	★S1-880-090-080	FL METAL ASSY		1
	2-24	S1-880-053-140	T REEL R ASSY		1
	2-25	S1-880-053-130	T REEL F ASSY		1
	2-26	★S1-880-050-220	SPRING, BACK TENSION R		2
	2-27	★S1-880-050-080	GEAR, FF		1
	2-28	★S1-880-055-010	REEL BASE ASSY		1
	2-29	★S1-880-210-060	HOLDER, PLUNGER		2
	2-30	★S1-880-050-180	SPRING, TRIGGER ARM F		1
	2-31	★S1-880-215-020	LEVER P KICK ASSY		1
	2-32	★S1-880-210-110	P-SPRING, P KICK LEVER		1
	2-33	★S1-880-073-020	CLUCH RF ASSY		1
	2-34	S1-880-070-080	BELT, RF		1
	2-35	★S1-880-050-170	SPRING, FR TRIGGER ARM		1
	2-36	★S1-880-050-150	ARM, RF TRIGGER		1
	2-37	S1-880-090-380	BELT, MAIN		1
	2-38	S1-880-093-070	FLYWHEEL F ASSY		1
	2-39	★S1-880-050-350	GEAR, T		2
	2-40	★S1-880-055-020	GEAR T F ASSY		1
	2-41	★S1-880-010-060	SPRING, M TRIGGER ARM		1
	2-42	★S1-880-210-030	ARM, M TRIGGER		1
	2-43	★S1-880-210-150	GEAR, M		1
	2-44	★S1-880-210-160	GEAR, RF CAM		1
	2-45	★S1-880-055-030	GEAR T ARM R ASSY		1
	2-46	★S1-880-215-010	LEVER CH SLIDE ASSY		1
	2-47	★S1-880-210-080	C-SPRING, SLIDE LEVER		1
	2-48	S1-880-093-080	FLYWHEEL R ASSY		1
	2-49	★S1-851-140-180	SCREW, MOTOR COLLAR		3
	2-50	★S1-821-120-660	RUBBER, MOTOR		3
	2-51	★S1-880-020-160	PANEL, SPRING PLATE		1
	2-52	★S1-880-090-110	BRACKET, MOTOR		1
	2-53	★S1-880-090-370	PULLEY, MOTOR A		1
	2-54	★S1-880-020-180	PLATE, SHIELD		1

MODEL NO.

TX - Z95

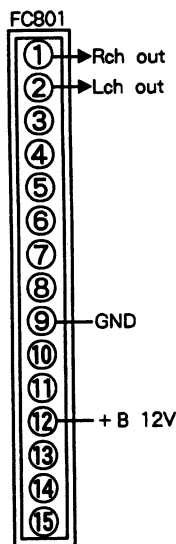
CAUTIONS WHEN SERVICING (TX - Z95)

Model TX - Z95 does not have a power supply circuit. Power is supplied to it through a 15-pin flat cable and the signal inputs/outputs are also performed through this cable.

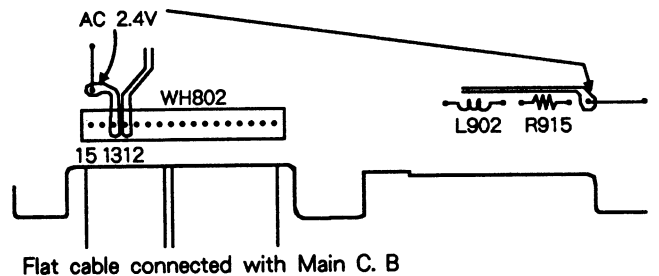
When servicing the TX - Z95 connect it to the MX - Z95M so that power is supplied to the TX - Z95. If the MX - Z95M is not available, follow the procedure below.

[When servicing the unassembled TX - Z95]

- ① Supply the following voltages to each FC801 terminal from an external power supply.



[B] FRONT C.B

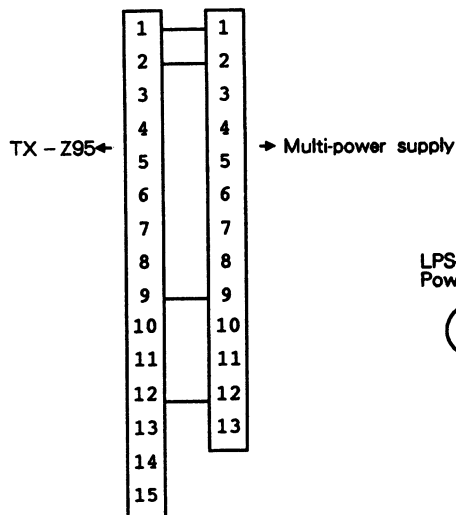


- ② Connection diagram when using multi power supply (LPS-9088).

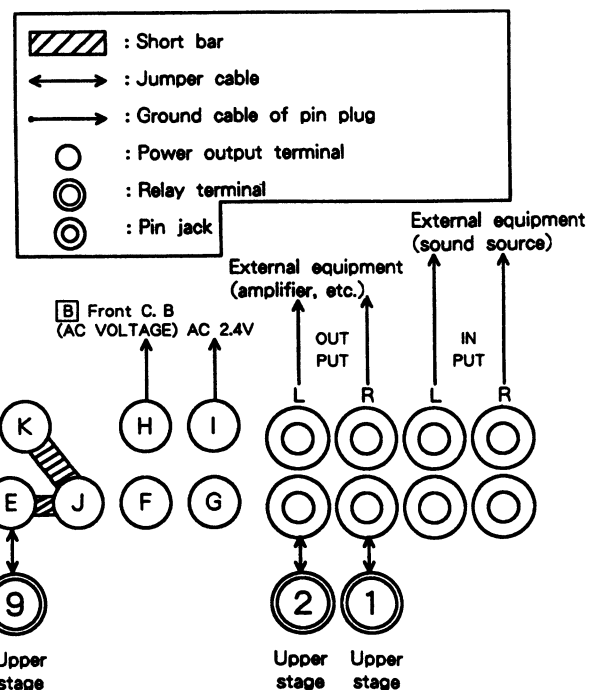
1. Apply AC 2.4V to the section shown by arrows in the above diagram from a multi-power supply. (The display becomes dim because it is lower than the rated voltage.)

2. Turn the TX-Z95 on using the SLEEP function since the POWER ON signal is not supplied.

Connect the multi-conversion harness for the F550 type to J1.



Connection diagram of multi-conversion harness

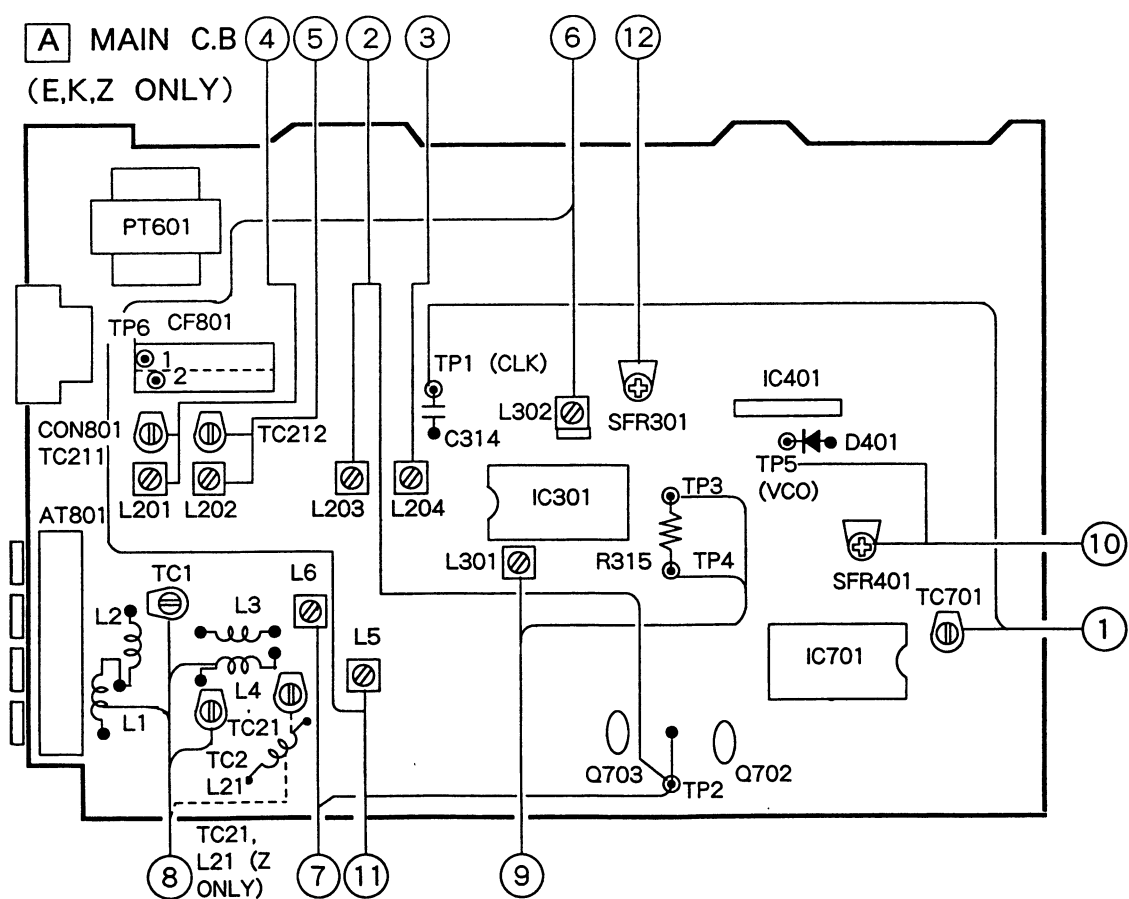
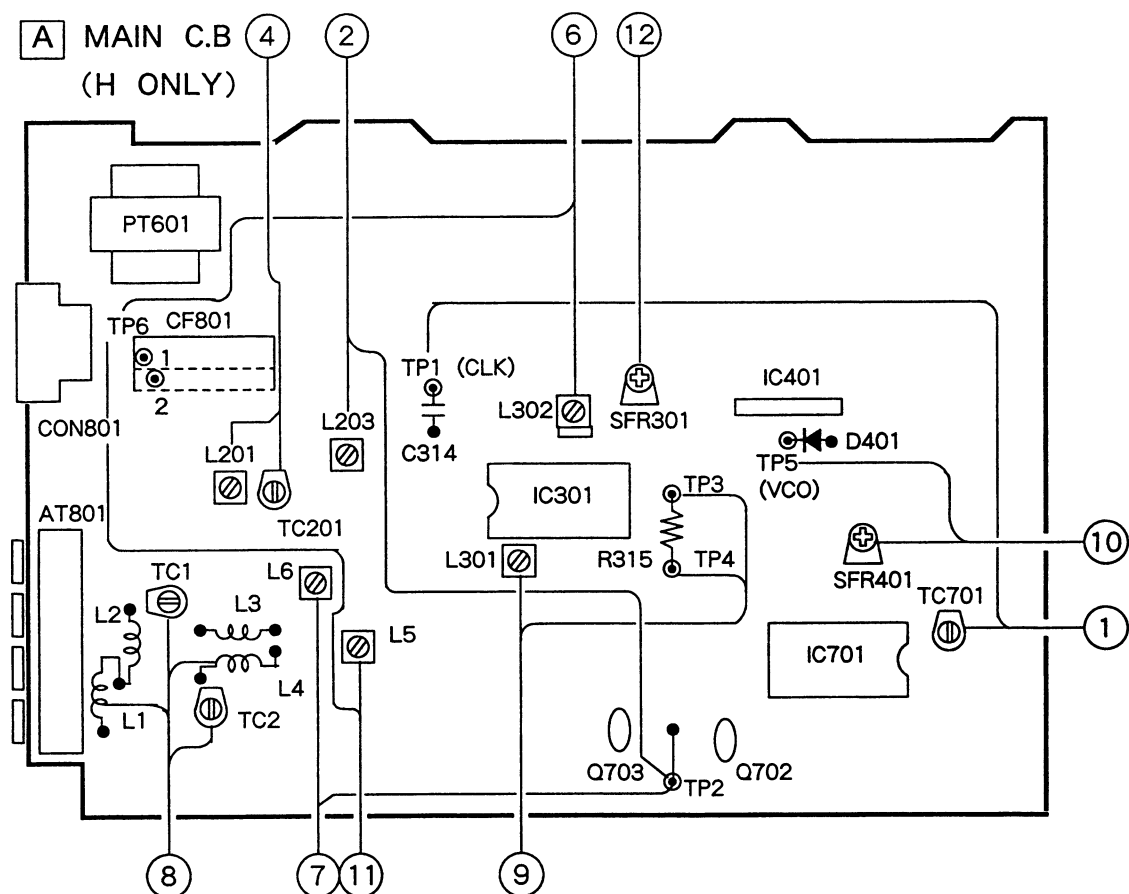


ELECTRICAL MAIN PARTS LIST (TX — Z95)

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
--- IC ---			C206	★87-018-121-019	CAP, CERA U 150P(E, K, Z)
	87-001-533-010	IC, GP1U501X1 (REMOTE SENSOR)	C207	★87-014-050-019	CAP, PP 510P-100J(E, K, Z)
	87-001-942-019	IC, LA1265G	C208	★87-018-134-019	CAP, CERA U 0.01-16Y(E, K, Z)
	87-001-376-019	IC, LC7218	C209	★87-010-405-019	CAP, ELECT 10-50 SME(E, K, Z)
	87-020-446-019	IC, TA7343AP			
	87-001-727-010	IC, UPD75206CW-115	C301	★87-018-134-019	CAP, CERA U 0.01-16 Y
--- TRANSISTOR ---			C302	★87-018-134-019	CAP, CERA U 0.01-16 Y
	87-026-165-019	FET, 3SK73GR(Z)	C303	★87-010-382-019	CAP, ELECT 22-25V SME
	89-501-615-019	FET, 2SK161GR	C304	★87-018-125-019	CAP, CERA U 330P-50 B
	89-502-415-019	FET, 2SK241GR			
	89-502-464-019	FET, 2SK246Y	C305	★87-010-402-019	CAP, ELECT 2.2-50V SME
	89-110-155-019	TRANSISTOR, 2SA1015GR	C306	★87-010-402-019	CAP, ELECT 2.2-50V SME
	89-318-154-019	TRANSISTOR, 2SC1815Y	C307	★87-010-403-019	CAP, ELECT 3.3-50V SME
	89-318-155-019	TRANSISTOR, 2SC1815GR	C308	★87-010-405-019	CAP, ELECT 10-50 SME
	89-319-233-019	TRANSISTOR, 2SC1923(O)			
	89-320-011-019	TRANSISTOR, 2SC2001K	C309	★87-010-544-019	CAP, ELECT 0.1-50V
	87-026-214-019	TRANSISTOR, DTA114YS	C311	★87-010-404-019	CAP, ELECT 4.7-50V SME
	87-026-215-019	TRANSISTOR, DTC114YS	C313	★87-018-134-019	CAP, CERA U 0.01-16 Y
--- DIODE ---			C314	★87-018-134-019	CAP, CERA U 0.01-16 Y
	87-001-559-019	DIODE, 1SS131			
	87-020-465-019	DIODE, 1SS133	C316	★87-010-401-019	CAP, ELECT 1-50V SME
	87-027-449-019	ZENER, HZ15-3L	C317	★87-010-401-019	CAP, ELECT 1-50V SME
	87-027-349-019	ZENER, HZ6A1L	C318	★87-018-134-019	CAP, CERA U 0.01-16 Y
	87-027-702-019	ZENER, HZ6C2L	C319	★87-018-134-019	CAP, CERA U 0.01-16 Y
--- MAIN CIRCUIT BOARD SECTION ---					
AT801	81-760-694-010	ANTENNA TERMINAL 4P (ANTENNA) (H)	C320	★87-018-134-019	CAP, CERA U 0.01-16 Y(H, E, K)
AT801	★81-631-646-019	ANTENNA TERMINAL 2P PAL (ANTENNA)	C321	★87-010-402-089	CAP, ELECT 2.2-50(Z)
C1	★87-018-103-019	CAP, CERA U 8.2P-50 SL(H, E, K)	C322	★87-010-402-089	CAP, ELECT 2.2-50(Z)
C2	★87-018-134-019	CAP, CERA U 0.01-16 Y	C401	★87-010-401-019	CAP, ELECT 1-50V SME
C3	★87-018-102-019	CAP, CERA U 6.8P-50 SL(H, E, K)			
C4	★87-018-102-019	CAP, CERA U 6.8P-50 SL(H, E, K)	C402	★87-010-403-019	CAP, ELECT 3.3-50V SME
C5	★87-018-098-019	CAP, CERA U 3.3P-50 SL(H, E, K)	C403	★87-010-248-019	CAP, ELECT 220-10V SME
C5	★87-018-097-019	CAP, CERA U 2.2P-50 SL(Z)	C404	★87-014-057-019	CAP, PP 1000P-100 J
C6	★87-018-100-019	CAP, CERA U 4.7P-50 SL(H, E, K)	C405	★87-010-405-019	CAP, ELECT 10-50 SME
C6	★87-018-106-019	CAP, CERA U 15P-50 SL(Z)			
C7	★87-018-096-019	CAP, CERA U 1P-50 SL	C409	★87-010-402-019	CAP, ELECT 2.2-50V SME
C8	★87-018-119-019	CAP, CERA U 100P-50 B	C410	★87-010-402-019	CAP, ELECT 2.2-50V SME
C9	★87-018-134-019	CAP, CERA U 0.01-16 Y	C411	★87-018-119-019	CAP, CERA U 100P-50(H)
C10	★87-018-116-019	CAP, CERA U 56P-50 SL	C505	★87-010-402-019	CAP, ELECT 2.2-50V SME
C11	★87-018-107-019	CAP, CERA U 18P-50 SL			
C12	★87-018-134-019	CAP, CERA U 0.01-16 Y	C506	★87-010-402-019	CAP, ELECT 2.2-50V SME
C13	★87-018-134-019	CAP, CERA U 0.01-16 Y	C512	★87-010-401-019	CAP, ELECT 1-50V SME
C14	★87-010-401-019	CAP, ELECT 1-50V SME	C602	★87-010-381-019	CAP, ELECT 330-16V SME
C16	★87-018-100-019	CAP, CERA U 4.7P-50 SL(E, K)	C603	★87-010-263-019	CAP, ELECT 100-10V
C20	★87-018-100-019	CAP, CERA U 4.7P-50 SL(Z)			
C21	★87-018-105-019	CAP, CERA U 12P-50 SL(Z)	C604	★87-010-221-019	CAP, ELECT 470-10V
C22	★87-018-134-019	CAP, CERA U 0.01-16Y(Z)	C605	★87-010-405-019	CAP, ELECT 10-50 SME
C23	★87-018-105-019	CAP, CERA U 12P-50 SL(Z)	C606	★87-010-263-019	CAP, ELECT 100-10V
C24	★87-018-105-019	CAP, CERA U 12P-50 SL(Z)	C607	★87-010-247-019	CAP, ELECT 100-50V SME
C50	★87-018-134-019	CAP, CERA U 0.01-16 Y			
C51	★87-018-134-019	CAP, CERA U 0.01-16 Y	C701	★87-018-134-019	CAP, CERA U 0.01-16 Y
C54	★87-018-134-019	CAP, CERA U 0.01-16 Y	C702	★87-010-263-019	CAP, ELECT 100-10V
C121	★87-018-134-019	CAP, CERA U 0.01-16 Y	C703	★87-018-134-019	CAP, CERA U 0.01-16 Y
C122	★87-010-374-019	CAP, ELECT 47-10V	C704	★87-018-134-019	CAP, CERA U 0.01-16 Y
C123	★87-018-134-019	CAP, CERA U 0.01-16 Y			
C201	★87-010-544-019	CAP, ELECT 0.1-50V	C706	★87-018-106-019	CAP, CERA U 15P-50 SL
C202	★87-014-049-019	CAP, PP 470P-100 J(E, K, Z)	C707	★87-010-101-019	CAP, ELECT 220-16V SME
C202	★87-014-050-019	CAP, PP 510P-100J(H)	C708	★87-010-545-019	CAP, ELECT 0.22-50V SME
C203	★87-018-110-019	CAP, CERA U 24P-50 SL(H)	C709	★87-018-134-019	CAP, CERA U 0.01-16 Y
C205	★87-018-110-019	CAP, CERA U 24P-50 SL(E, K, Z)			
			C710	★87-010-404-019	CAP, ELECT 4.7-50V SME
			C712	★87-018-134-019	CAP, CERA U 0.01-16 Y
			C713	★87-018-134-019	CAP, CERA U 0.01-16 Y
			C715	★87-010-401-019	CAP, ELECT 1-50V SME(E, K, Z)
			C717	★87-018-134-019	CAP, CERA U 0.01-16 Y(E, K)
			C718	★87-010-101-019	CAP, ELECT 220-16V SME
			C801	★87-018-134-019	CAP, CERA U 0.01-16 Y
			C803	★87-018-134-019	CAP, CERA U 0.01-16Y
			C806	★87-018-134-089	CAP, CERA 0.01-16 Y
			C811	★87-018-134-019	CAP, CERA U 0.01-16 Y(Z)
			CF121	★87-008-261-019	FILTER, SFE 10.7MA5-A(H, E, K)
			CF121	★82-799-621-019	FILTER, MS2-A(Z)
			CF122	★87-008-261-019	FILTER, SFE 10.7MA5-A(H, E, K)
			CF123	★87-008-261-019	FILTER, SFE10.7 MA-5-A(Z)
			CF301	★82-794-670-019	FILTER, BFU 450C4N
			CF801	89-VT5-618-110	CORD, FG 15P(AMP)

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
CON801	87-009-065-019	CONNECTOR 15P FG(DECK)	SW2	87-036-142-019	TACT SW(STATION PRESET2)
CON803	87-754-629-019	CONNECTOR XH M 2P(AM LOOP)(E, K)	SW3	87-036-142-019	TACT SW(STATION PRESET3)
D1	87-027-900-019	VARI-CAP, 1SV147	SW4	87-036-142-019	TACT SW(STATION PRESET4)
D2	87-027-900-019	VARI-CAP, 1SV147	SW5	87-036-142-019	TACT SW(STATION PRESET5)
D3	87-027-900-019	VARI-CAP, 1SV147	SW6	87-036-142-019	TACT SW(STATION PRESET6)
D21	87-027-900-019	VARI-CAP, 1SV147(Z)	SW7	87-036-142-019	TACT SW(STATION PRESET7)
D201	81-754-634-019	VARI-CAP, KV1260	SW8	87-036-142-019	TACT SW(STATION PRESET8)
FIL1	87-030-105-010	FILTER, BPM86A(Z)	SW9	87-036-142-019	TACT SW(STATION PRESET9)
L1	★87-006-198-019	COIL, ANT 2-3/4 TS L5	SW10	87-036-142-019	TACT SW(STATION PRESET10)
L2	★87-006-199-019	COIL, ANT 3/4 T L5	SW11	87-036-142-019	TACT SW(BAND)
L3	★87-006-200-019	COIL, RF FM 3-1/2 T L5	SW12	87-036-142-019	TACT SW(TUNING/TIMER UP)
L4	★87-006-201-019	COIL, RF FM 3-1/2 T L5	SW13	87-036-142-019	TACT SW(TUNING/TIMER DOWN)
L5	★82-794-683-019	IFT, FM 6T	SW14	87-036-142-019	TACT SW(SET/MEMO)
L6	★87-007-259-019	COIL, FM OSC (7K)N	SW15	87-036-142-019	TACT SW(MODE)
L7	★87-003-098-019	COIL, 2.2UH	SW16	87-036-142-019	TACT SW(DISPLAY)
L21	★87-006-202-019	COIL, RF FM4TSR, L5(Z)	SW17	87-036-142-019	TACT SW(SLEEP)
L201	★87-006-182-019	COIL, AM ANT 2B(H)	SW18	87-036-142-019	TACT SW(TIMER/STANDBY)
L201	★87-006-190-019	COIL, MW ANT 3B(E, K, Z)			
L202	★87-006-177-019	COIL, LW ANT(E, K, Z)			
L203	★82-794-687-019	COIL, MW(AM) OSC			
L204	★82-794-688-019	COIL, LW OSC(E, K, Z)			
L301	★81-631-611-019	COIL, QUAD (SINGLE)			
L302	87-008-452-019	FILTER, CERAMIC CFAZ-450			
L303	★87-003-098-019	COIL, 2.2UH			
L321	★82-794-697-019	FILTER, ANTI BIRDIE(Z)			
L501	★87-008-253-019	FILTER, LPF			
L601	★87-003-136-019	COIL, 100UH			
L701	★87-003-098-019	COIL, 2.2UH			
PT601	89-VT5-624-019	POWER TRANSFORMER FL			
SFR301	★87-024-174-019	SFR, 33K			
SFR401	★87-024-171-019	SFR, 4.7K			
SW801	82-795-624-019	SLIDE SW(AM STEP)(H)			
TC1	★87-011-219-019	CAP, TRIMMER 10P VCT			
TC2	★87-011-219-019	CAP, TRIMMER 10P VCT			
TC21	★87-011-219-019	CAP, TRIMMER 10P(Z)			
TC201	★87-011-221-019	CAP, TRIMMER 30P VC51(H)			
TC211	★87-011-220-019	CAP, TRIMMER 20P(E, K, Z)			
TC212	★87-011-221-019	CAP, TRIMMER 30P(E, K, Z)			
TC701	★87-011-221-019	CAP, TRIMMER 30P VC51			
X701	★87-030-163-019	RESONATOR, CRYSTAL 7.2MHZ(NDK)			
--- FRONT CIRCUIT BOARD SECTION ---					
C812	★87-018-119-019	CAP, CERA U 100P-50B(E, K, Z)			
C901	★87-018-131-019	CAP, CERA U 1000P-50 B			
C902	★87-018-134-019	CAP, CERA U 0.01-16 Y			
C903	★87-018-134-019	CAP, CERA U 0.01-16 Y			
C905	★87-018-134-019	CAP, CERA U 0.01-16 Y			
C906	★87-018-134-019	CAP, CERA U 0.01-16 Y			
C907	★87-018-131-019	CAP, CERA U 1000P-50 B			
C908	★87-010-405-019	CAP, ELECT 10-50 SME			
C909	★87-018-134-019	CAP, CERA U 0.01-16 Y			
C910	★87-010-252-019	CAP, ELECT 1000-6.3V			
C911	★87-010-071-019	CAP, ELECT 1-50V			
C912	★87-010-071-019	CAP, ELECT 1-50V			
C913	★87-010-374-019	CAP, ELECT 47-10V			
C914	★87-010-401-019	CAP, ELECT 1-50V SME			
C915	★87-010-415-089	CAP, ELECT 10-50 SRE			
CF901	★87-008-394-019	FILTER, CERAMIC CST 4.19 MGW			
FL901	★81-690-620-010	FL, 9BT-44GK(DISPLAY)			
L901	★87-003-102-019	COIL, 10UH			
L902	★87-003-102-019	COIL, 10UH			
L905	★87-003-102-019	COIL, 10UH			
L906	★87-003-102-019	COIL, 10UH			
SW1	87-036-142-019	TACT SW(STATION PRESET1)			

ADJUSTMENT (TX — Z95)



1. Clock Frequency Adjustment

Settings : • Test point : TP1
 • Adjustment location : TC701
 Method : Set to AM (MW) 1602kHz (H), 1611kHz (E, K, Z) and adjust so that the test point becomes 2052kHz \pm 0.01kHz (H), 2061kHz \pm 0.01kHz (E, K, Z).

2. AM (MW) VT Adjustment

Settings : • Test point : TP2
 • Adjustment location : L203
 Method : Set to AM (MW) 531kHz (H), 522kHz (E, K, Z) and adjust so that the test point becomes 1.1V \pm 0.05V (H), 0.9V \pm 0.05V (E, K, Z).

3. LW VT Adjustment (E, K, Z only)

Settings : • Test point : TP2
 • Adjustment location : L204
 Method : Set to LW 144kHz and adjust so that the test point becomes 1.5V \pm 0.05V.

4. AM (MW) Tracking Adjustment

Settings : • Test point : TP6
 L201 603kHz
 TC201 (H), TC211 (E, K, Z) 1404kHz
 Method : Output level become maximum.

5. LW Tracking Adjustment (E, K, Z only)

Settings : • Test point : TP6
 L202 144kHz
 TC212 290kHz
 Method : Output level become maximum.

6. AM IF Adjustment

Settings : • Test point : TP6
 L302 450kHz

7. FM VT Adjustment

Settings : • Test point : TP2
 • Adjustment location : L6
 Method : Set to FM 87.5MHz and adjust L6 so that TP2 becomes 3.0V \pm 0.05V.

8. FM Tracking Adjustment

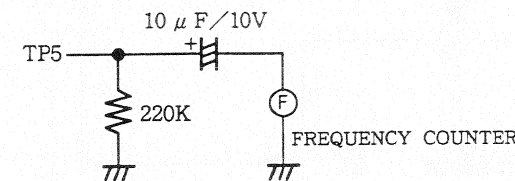
Settings : • Test point : TP6
 L1, L4 (H, E, K) } 87.5MHz
 L1, L4, L21 (Z) }
 TC1, TC2 (H, E, K) } 108MHz
 TC1, TC2, TC21 (Z) }
 Method : Output level become maximum. Confirm at 98.0MHz, distortion less than 3%.

9. DC Balance Adjustment

Settings : • Test point : TP3, TP4 (DC balance)
 • Adjustment location : L301
 Method : Set to FM 98.0MHz and adjust L301 so that TP3 and TP4 becomes 0V \pm 0.02V.

10. MPX VCO Adjustment

Settings : • Test point : TP5
 • MODE SW : STEREO
 • Adjustment location : SFR401
 Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes 38kHz \pm 0.05kHz.



11. FM IF Adjustment

Settings : • Test point : TP6
 L5 10.7MHz

12. Tuning Indicator Lighting Level Adjustment

Settings : • Adjustment location : SFR301
 Method : Apply an FM 98.0MHz, 18dB signal and adjust so that the "TUNE" indicator lights. Lower the input level by 2dB and check that the "TUNE" indicator goes out.

PRACTICAL SERVICE FIGURE (TX — Z95)

< FM SECTION >

Usable Sensitivity : H, E, K MODELS
 (THD 3%) 4 \pm 5dB (at 87.5, 98.0, 108.0MHz)
 Z MODEL
 8 \pm 5dB (at 87.5MHz)
 7 \pm 5dB (at 98.0MHz)
 7 \pm 5dB (at 108.0MHz)

S/N 50dB Quieting Sensitivity :

H, E, K MODELS
 28 \pm 6dB
 (at 87.5, 90.0, 108.0MHz)
 Z MODEL
 32 \pm 6dB
 (at 87.5, 90.0, 108.0MHz)

Signal to Noise Ratio :

(MONO.)
 H, E, K MODELS
 More than 68dB (at 98.0MHz)
 Z MODEL
 More than 65dB (at 98.0MHz)
 (STEREO)
 H, E, K MODELS
 More than 62dB (at 98.0MHz)
 Z MODEL
 More than 58dB (at 98.0MHz)

Total Harmonic Distortion :

(MONO.)
 Less than 0.8% (at 98.0MHz)
 (STEREO)
 Less than 1.0% (at 98.0MHz)

Stereo Separation : More than 25dB

Intermediate Frequency : 10.7MHz

< AM (MW) SECTION >

Sensitivity : 57 \pm 3dB (at 603kHz)
 54 \pm 4dB (at 999kHz)
 53 \pm 4dB (at 1404kHz)

Total Harmonic Distortion :

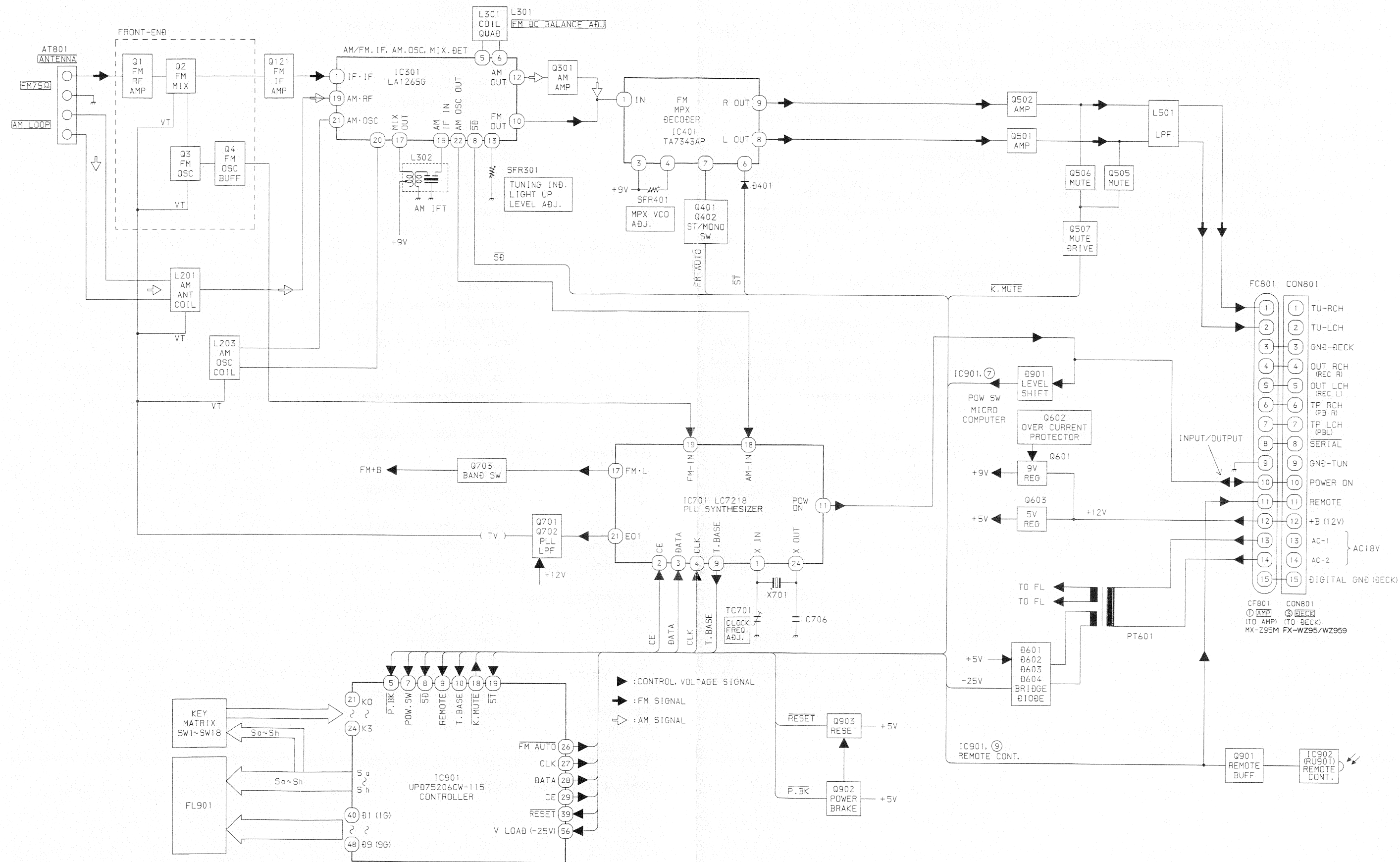
Less than 2.0% (at 999kHz)

Intermediate Frequency : 450kHz

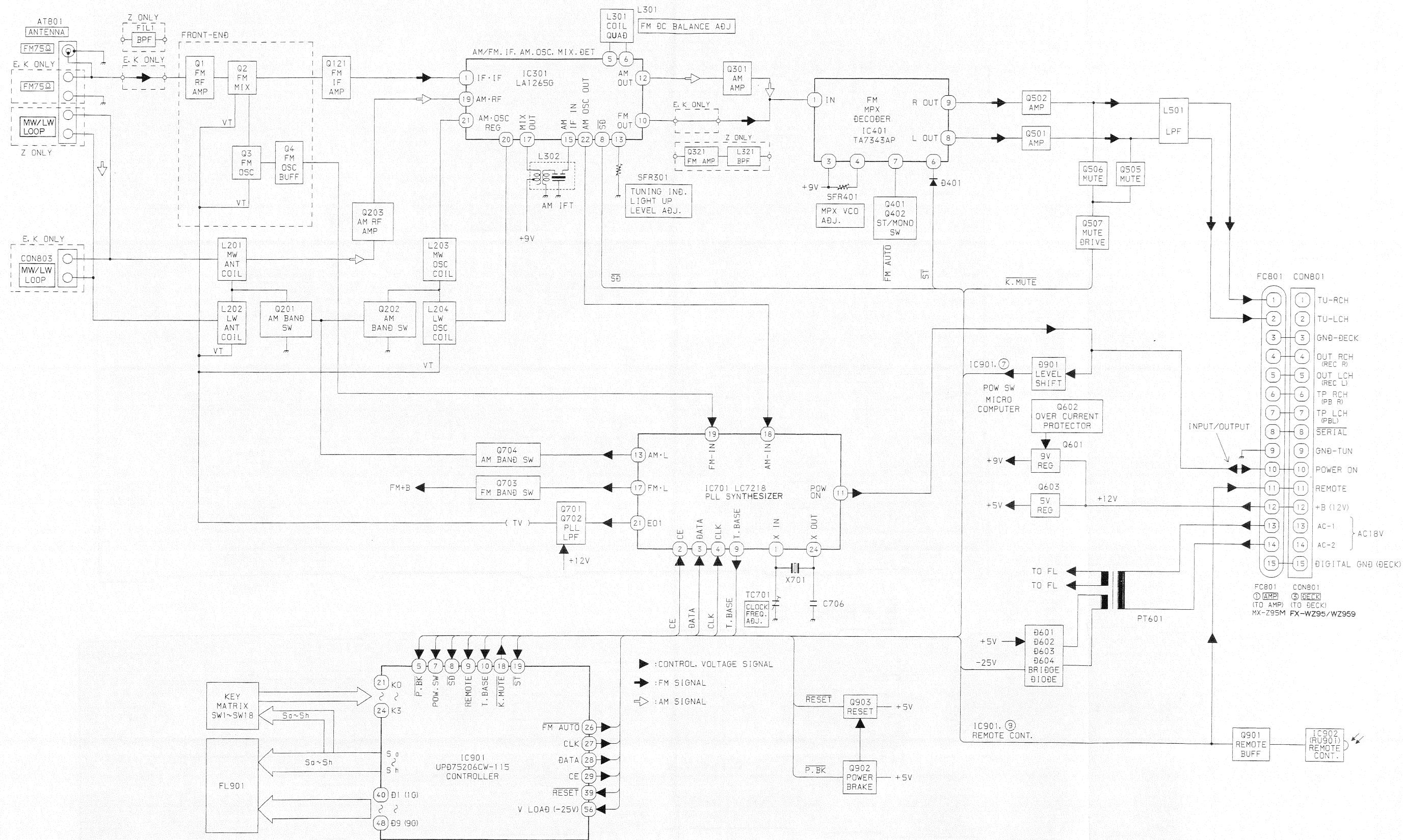
< LW SECTION > (E, K, Z only)

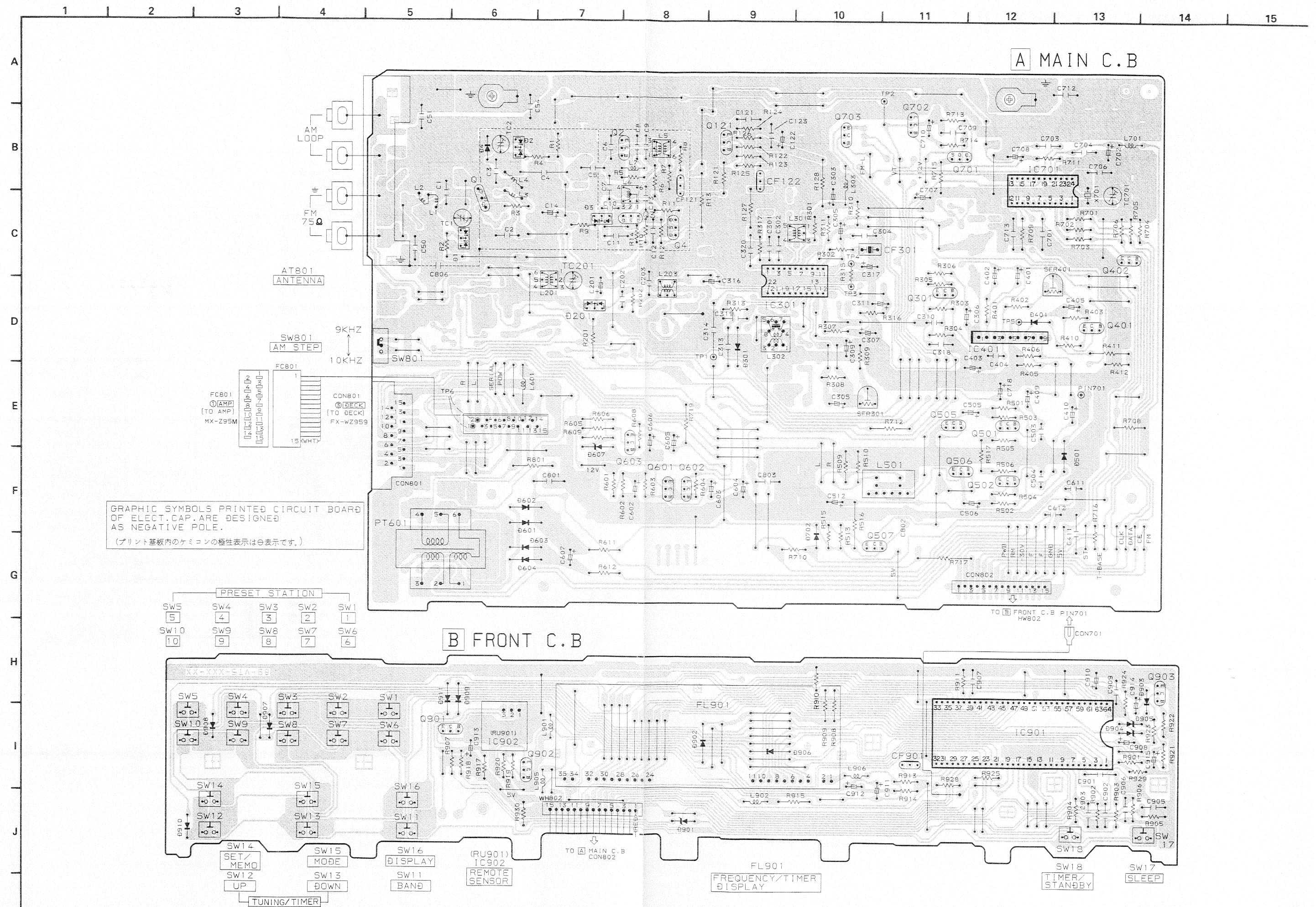
Sensitivity : 64 \pm 5dB (at 144, 198, 290kHz)
 Intermediate Frequency : 450kHz

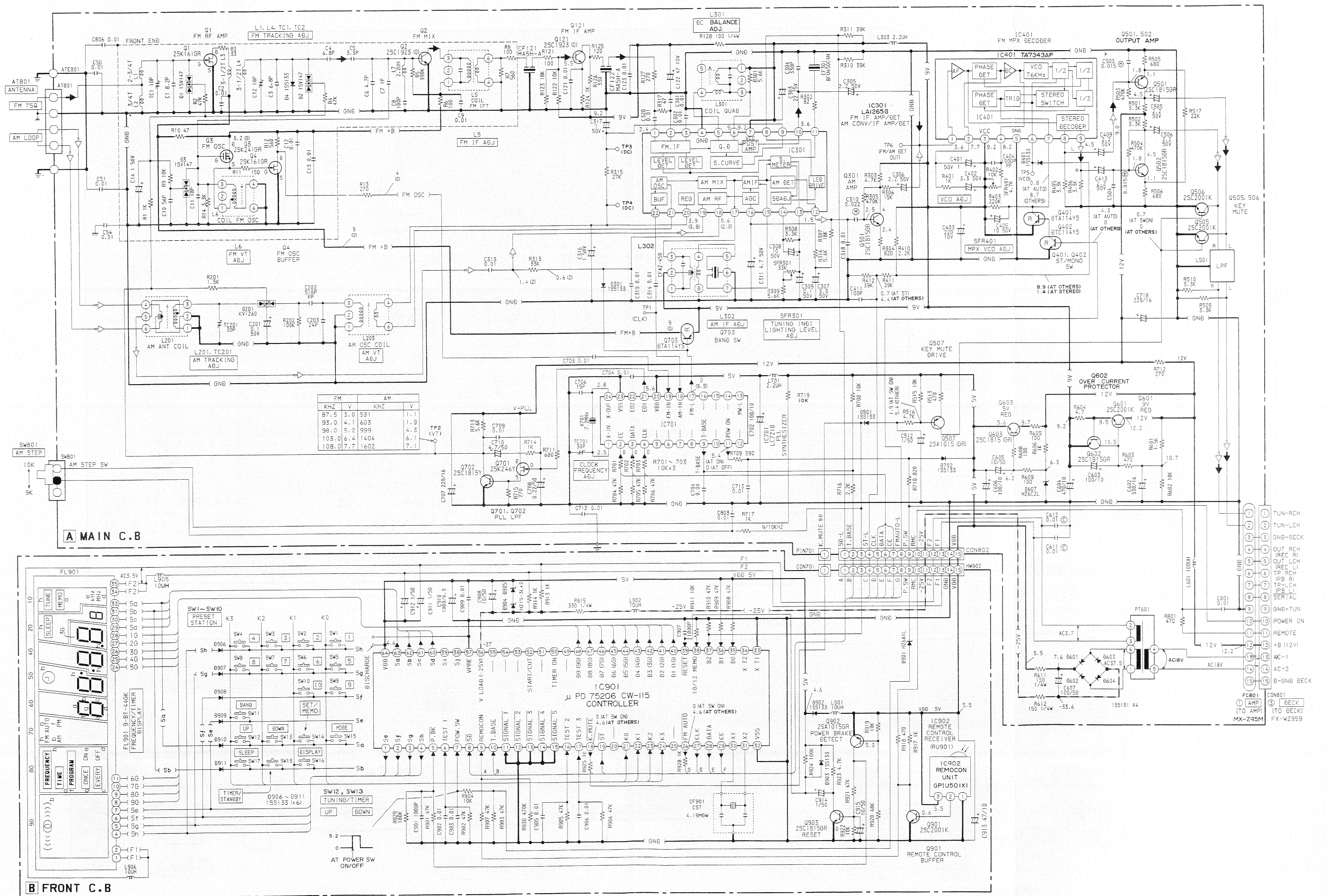
BLOCK DIAGRAM - 1 (TX - Z95YH)

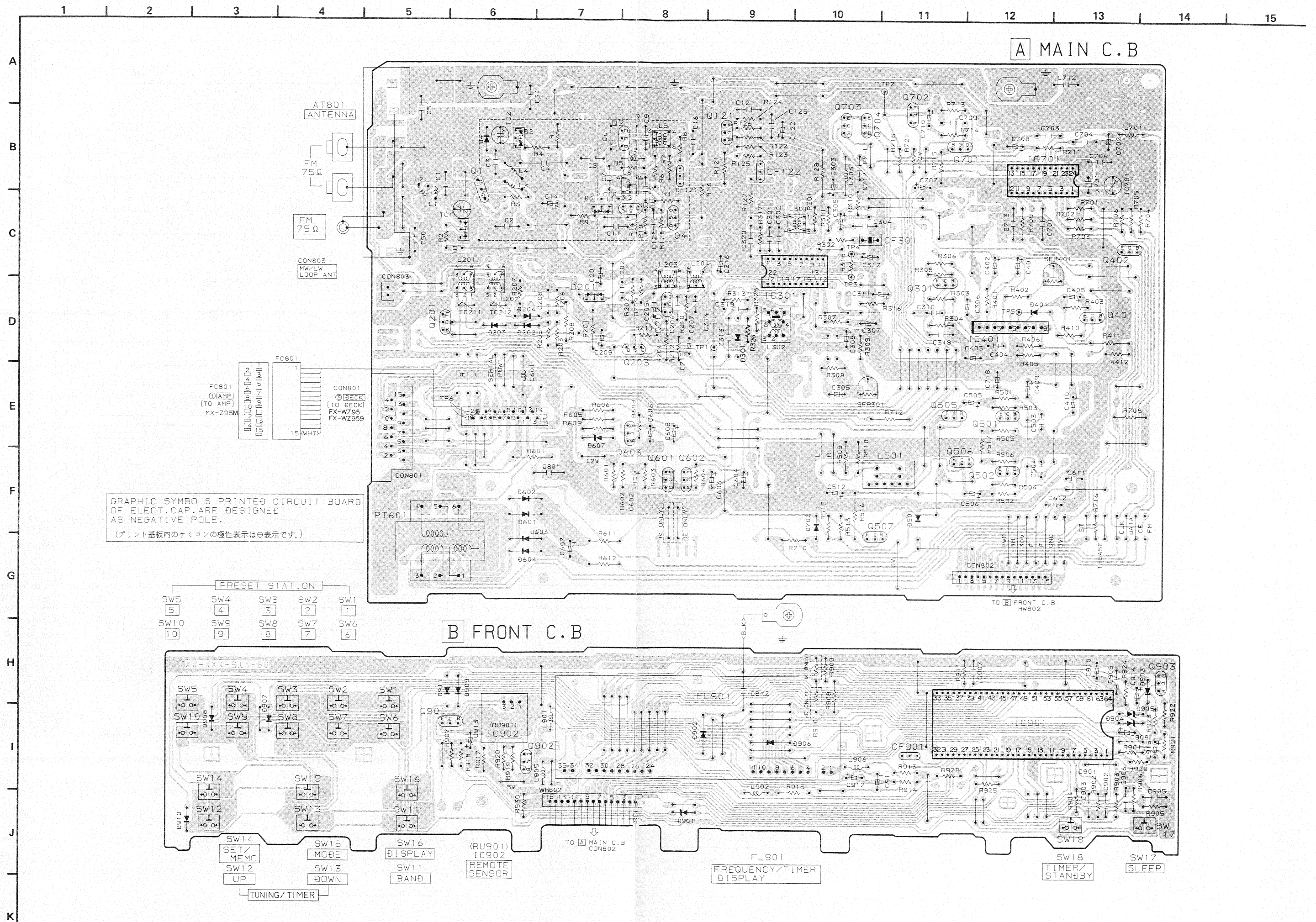


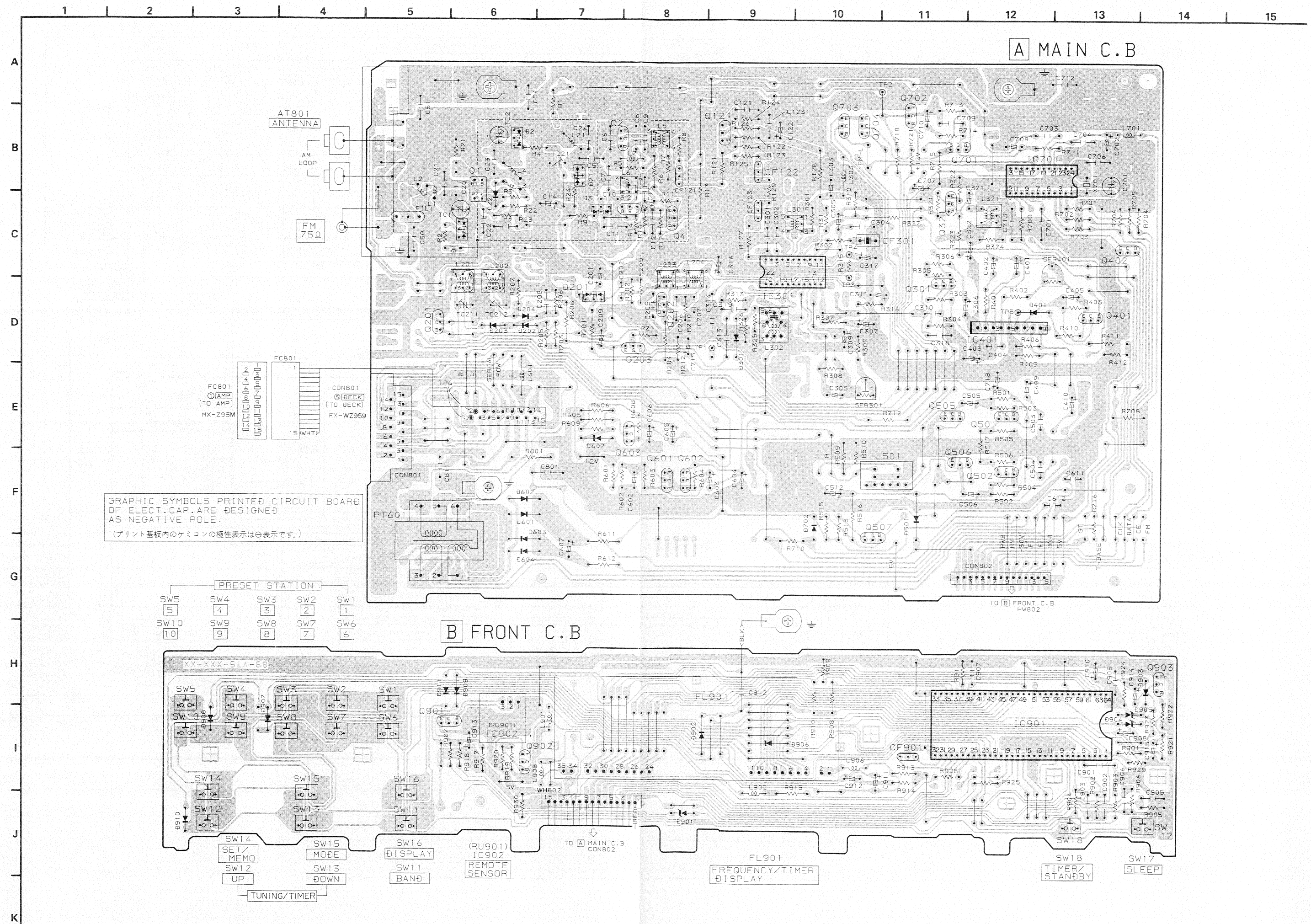
BLOCK DIAGRAM – 2 (TX – Z95YE,YK,YZ)

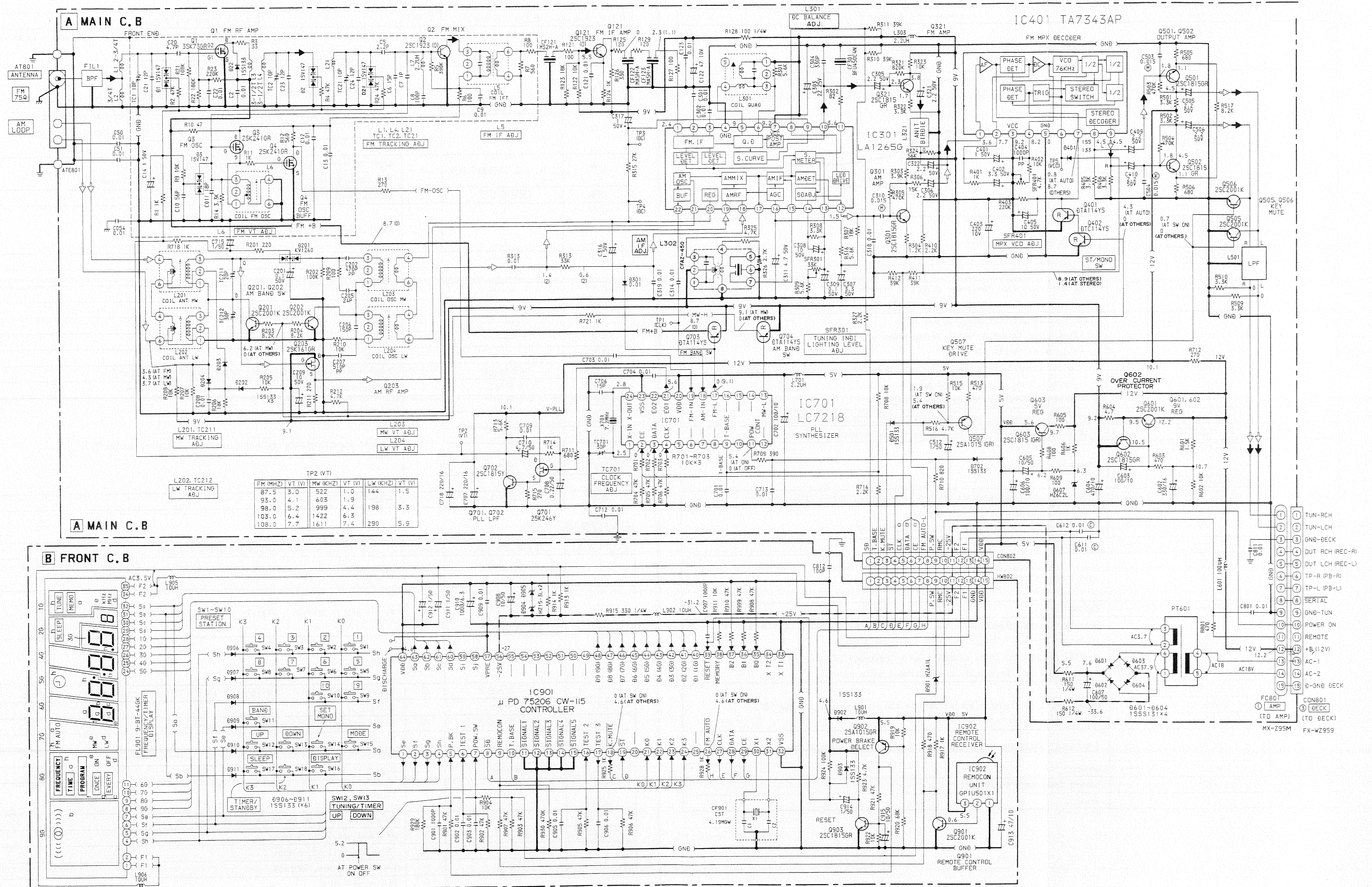






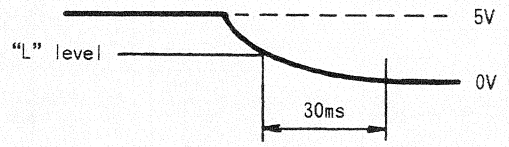






IC DESCRIPTION (TX - Z95)

IC,UPD75206CW - 115

Pin No.	Pin Name	I/O	Description
1 } 4	Se } Sh	O	Segment signal outputs and key scan signal outputs. Active "H".
5	PBK (Power Brake)	I	Input to detect a power failure. When this pin continues to be "L" for 30ms at more, a power failure is detected (the unit enters the power backup state). 
6 16 17	TEST 1 TEST 2 TEST 3	I	Test mode setting inputs.
7	POW SW	I	Power control input. The power is turned on and off alternately (the rise is detected) every time the power switch is pressed. When the power is turned on, PLL (LC7218), Pin 11 POW goes "H".
8	SD	I	Input to stop auto scanning. Active "L". • This input is not accepted during power off. • This input lights "TUNE". • SD is detected every 5ms during auto scanning, and when 4 "L" pulses are counted, auto scanning is stopped. • SD is not detected during manual tuning.
9	REMOCON	I	Remote control serial data input. Active "H" (the rise is detected)
10	T. BASE	I	Receives 8Hz from the PLL (LC7218) as a time base clock signal.
11 } 15	SIGNAL 1 } SIGNAL 5	-	Ground.
18	K. MUTE	O	Outputs a muting signal when any key is operated. Active "L".
19	ST	I	Input to light the STEREO indicator. • This input is not accepted when power is off.
20	—	-	Unused.
21 } 24	K0 } K3	I	Auto scanning inputs.
25	—	-	Unused.
26	FM AUTO	O	Outputs a signal depending on the mode selected by the MODE key during FM reception. Active "L" when the AUTO indicator lights. • If the AUTO indicator changes when a frequency is selected in timer programming, the output is the channel being received.
27 28 29	CLK DATA CE	O	Output ports to transfer serial data to the PLL (LC7218). Active "H".
30 31	X ₁ X ₂	-	A ceramic oscillator which generates a main system clock signal (4.19MHz).
32	VSS	-	Ground.
33	XT ₁	-	Unused (connected to ground).
34	XT ₂	-	Unused.

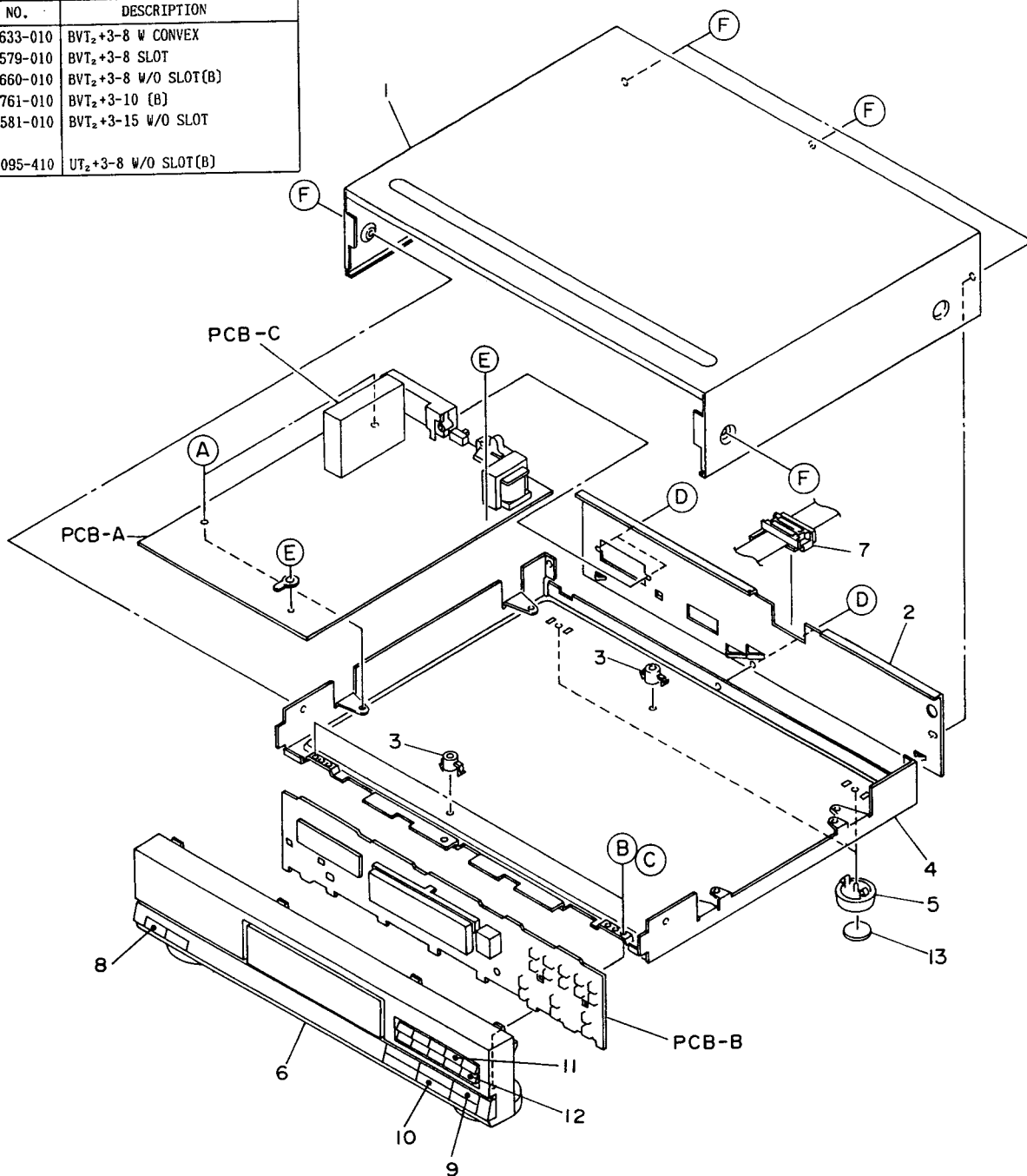
Pin No.	Pin Name	I/O	Description																				
35	B ₀	I	<div>Inputs to select the frequency range, etc. accordng to the destination to which the unit is to be shipped, using 3 bits.</div> <table><tr><th>Destination Pin</th><th>H</th><th>U</th><th>E,Z</th><th>K</th></tr><tr><td>B₀</td><td>H</td><td>L</td><td>H</td><td>H</td></tr><tr><td>B₁</td><td>H</td><td>L</td><td>L</td><td>L</td></tr><tr><td>B₂</td><td>*</td><td>H</td><td>H</td><td>L</td></tr></table> <div>H: HIGH (pull-up) L: LOW (pull-down) *: Changed by a switch</div>	Destination Pin	H	U	E,Z	K	B ₀	H	L	H	H	B ₁	H	L	L	L	B ₂	*	H	H	L
Destination Pin	H			U	E,Z	K																	
B ₀	H			L	H	H																	
B ₁	H	L		L	L																		
B ₂	*	H	H	L																			
36	B ₁																						
37	B ₂																						
38	10/12 MEMORY	I	Input to select the number of preset memories 10 or 12. “L” input assigns 10 memories and “H” input assigns 12 memories.																				
39	RESET	I	System reset input.																				
40 } 48	D ₁ } D ₃	O	Digit signal outputs. Active “H”.																				
49	—	—	Unused.																				
50	TIMER ON	—	Unused.																				
51	—	—	Unused.																				
52	START/CUT	—	Unused.																				
53	—	—	Unused.																				
54	—	—	Unused.																				
55	—	—	Unused.																				
56	VLOAD	I	Power supply pin of the output buffer in the FL display.																				
57	VPRE	I	For connection of pull-down resistor of the FL display.																				
58 59 60 61 62 63	S _j S _i S _d S _c S _b S _a	O	S _j , S _i : Unused. Segment signal outputs and key scan signal outputs. Active “H”.																				
64	VDD			—	Power supply pin. 5V±10%																		

IC,LC7218

Pin No.	Pin Name	I/O	Description
1 24	X IN X OUT	-	Clock oscillator connection pins. A 7.2MHz crystal oscillator is connected.
2 3 4	CE DATA CLK	I	When a key is operated, signals are transferred from the CPU. Active "H".
5 } 8	—	-	Unused.
9	T-BASE	O	Outputs an 8Hz signal. Transfers it to the CPU as a time base clock signal.
10	—	-	Unused.
11	POW ON	O	Power control output. Outputs "H" during power on.
12	—	-	Unused.
13	MW(AM)-L	O	Outputs "L" when an MW(AM) broadcast is received. Unused.
14	—	-	Unused.
15 16	—	-	Unused.
17	FM-L	O	Outputs "L" when an FM broadcast is received.
18	AM IN	I	AM local oscillation input.
19	FM IN	I	FM local oscillation input.
20	VDD	-	Power supply pin. 5V±10%
21	EO ₁	O	PLL error output.
22	EO ₂	-	Unused.
23	VSS	-	Ground pin.

EXPLODED VIEW (TX - Z95)

REF.NO.	PART NO.	DESCRIPTION
A	87-067-633-010	BVT ₂ +3-8 W CONVEX
B	87-067-579-010	BVT ₂ +3-8 SLOT
C	87-067-660-010	BVT ₂ +3-8 W/O SLOT(B)
D	87-067-761-010	BVT ₂ +3-10 (B)
E	87-067-581-010	BVT ₂ +3-15 W/O SLOT
F	87-743-095-410	UT ₂ +3-8 W/O SLOT(B)



MECHANICAL PARTS LIST (TX - Z95)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	1	★ 89-VT5-003-010	CABINET, STEEL		1
	2	★ 80-VT5-021-019	PANEL, REAR(H)	*	1
	2	★ 80-VT5-023-019	PANEL, REAR(E)	*	1
	2	★ 80-VT5-024-019	PANEL, REAR(K)	*	1
	2	★ 80-VT5-025-019	PANEL, REAR(Z)	*	1
	3	---	HOLDER, P. C. B		2
	4	---	CHASSIS, AMP TU-G		1
	5	★ 87-085-213-019	FOOT, H12.5		2
	6	★ 09-047-655-010	CABINET FRONT ASSY	*	1
	7	★ 89-VT5-202-010	CORD, BUSHING		1
	8	★ 80-VT5-016-010	BUTTON, SLEEP	*	1
	9	★ 80-VT5-017-010	BUTTON, SET	*	1
	10	★ 80-VT5-018-010	BUTTON, UP DOWN	*	1
	11	★ 80-VT5-014-010	BUTTON, TUNING PRE1	*	1
	12	★ 80-VT5-015-010	BUTTON, TUNING PRE2	*	1
	13	★ 89-VW5-212-010	FELT, FOOT		2

■ SPEAKER LIST (SX — Z959/Z95)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q , TY
	1	★ 80 - VS5 - 026 - 010	GRILL FRAME ASSY (E,K,Z) (Z95)	※	2
	1	★ 81 - 672 - 026 - 010	GRILL FRAME ASSY (H) (Z959)		2
	2	★ 80 - VS5 - 011 - 010	PANEL W (E,K,Z) (Z95)	※	2
	2	★ 80 - VS5 - 011 - 010	PANEL W (H) (Z959)	※	2
	3	★ 80 - VS5 - 012 - 010	PANEL M ASSY (E,K,Z) (Z95)	※	2
	3	★ 80 - VS5 - 012 - 010	PANEL M ASSY (H) (Z959)	※	2
	4	★ 80 - VS5 - 004 - 010	PANEL T ASSY (E,K,Z) (Z95)	※	2
	4	★ 80 - VS5 - 016 - 010	PANEL T ASSY (H) (Z959)	※	2
	5	★ 80 - VS5 - 023 - 010	SPEC. LABEL (E,K,Z) (Z95)	※	2
	5	★ 80 - VS5 - 024 - 010	SPEC. LABEL (H) (Z959Y)	※	2
	5	★ 80 - VS5 - 025 - 010	SPEC. LABEL (HJ) (Z959YJ)	※	2
	6	80 - VS5 - 604 - 010	SPEAKER W (E,K,Z) (Z95)	※	2
	6	80 - VS5 - 606 - 010	SPEAKER W (H) (Z959)	※	2
	7	80 - VS5 - 609 - 010	SPEAKER T	※	2
	8	89 - MS7 - 605 - 010	SPEAKER CERAMIC		2
	9	81 - 672 - 612 - 010	SPEAKER CORD (E,K,Z) (Z95)		2
	10	★ 80 - VS5 - 614 - 010	CAP,ELECT 3.3UF (E,K,Z) (Z95)	※	2
	11	★ 80 - VS5 - 613 - 010	INDUCTOR 0.3mH (E,K,Z) (Z95)	※	2
	12	★ 81 - 654 - 605 - 010	TERMINAL ASSY (H) (Z959)		2

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q , TY
	1	★ 80 - VR5 - 904 - 019	INSTRUCTION BOOKLET, MH (H)	※	1
	1	★ 80 - VR5 - 905 - 019	INSTRUCTION BOOKLET, ME (E,K,Z)	※	1
	2	★ 81 - 653 - 645 - 010	AM - LOOP ANT (6T) NC (H,Z)		1
	2	★ 81 - 653 - 647 - 010	AM - LOOP ANT (6T) CON (E,K)		1
	3	★ 81 - 748 - 632 - 010	FEEDER ANT,FM N (H,E,K)		1
	4	★ 87 - 043 - 106 - 019	FM WIRE ANT (Z)		1
	5	★ 87 - 009 - 724 - 010	PLUG, ADAPTOR IR39 (AH)		1
	5	★ 87 - 009 - 725 - 010	PLUG, ADAPTOR IR40 (H)		1
	6	★ 80 - VR5 - 010 - 010	REMOTE UNIIT RC - T95MFYB (H)	※	1
	6	★ 80 - VR5 - 011 - 010	REMOTE UNIIT RC - T95MLYB (E,K,Z)	※	1